

A Catalog From



5563 Sepulveda Blvd.
Culver City, CA 90230

HRS: M-F 10 AM-6 PM SAT 10 AM-5 PM

1-800-882-1343

Out-of-State

(310) 390-8003 Local/Tech • Fax (310) 390-4393

ICOM...

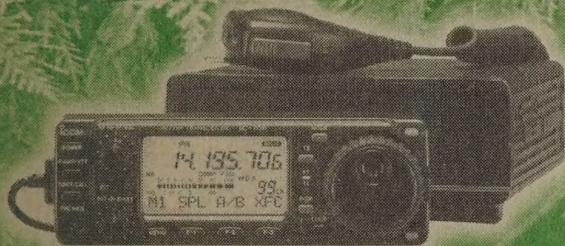
Bringing You
the Future Now!



IC-T22



IC-T7



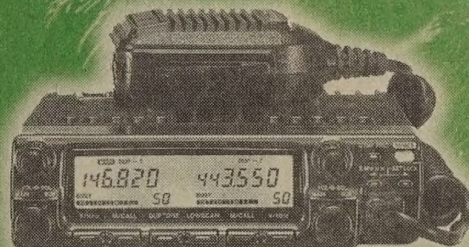
IC-706



IC-2710H



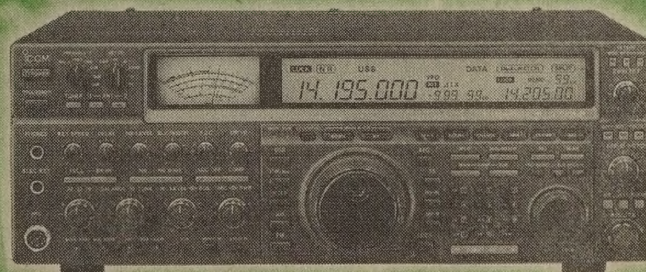
IC-2000H



IC-2350H



IC-821H



IC-775DSP

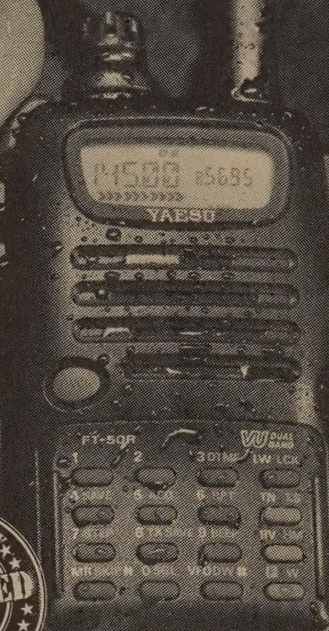
ICOM®

Ultra Compact Dual Band Handheld **FT-50R**

One tough little dual bander!

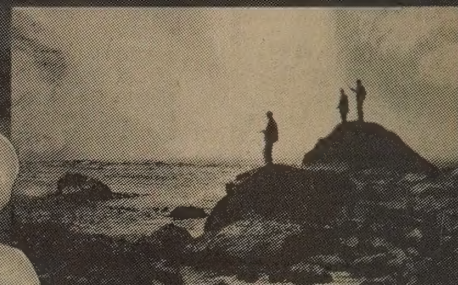
Features

- Frequency Coverage
 - Wide Band Receive
 - RX: 76-200 MHz, 300-540 MHz, 590-999 MHz*
 - TX: 144-148 MHz, 430-450 MHz
- AM Aircraft Receive
- MIL-STD 810 Rating
- Digital Coded Squelch (DCS)
- 112 Memory Channels
- 12V DC Direct Input
- High Speed Scanning
- Alphanumeric Display
- CTCSS Encode (Decode w/FTT-12)
- Auto Range Transpond System™ (ARTS™)
- Dual Watch
- Direct FM
- High Audio Output
- ADMS-1C Windows™ Programmable
- Four Battery Savers:
 - Automatic Power-Off (APO)
 - Receive Battery Saver (RBS)
 - Selectable Power Output (SPO)
 - Transmit Battery Saver (TBS)
- Time Out Timer (TOT)
- 2.5 and 5 Watt Versions Available
- Optional Digital Voice Recording System (DVRS)
- Full line of accessories



"You notice how loud this HT's audio is?"

"Yeah, it's Mil Spec tough like a commercial HT."



"Easy to operate, small, great price!"

"Yaesu did it again!"

For the foremost in top-performing, durable, dual band handhelds there is one choice. The FT-50R. Manufactured to rigid commercial grade standards, the FT-50R is the only amateur dual band HT to achieve a MIL-STD 810 rating. Water-resistant construction uses weather-proof gaskets to seal major internal components against the corrosive action of dust and moisture. And, the rugged FT-50R withstands shock and vibration, so throw it in with your gear!

Dynamic and exclusive features set the FT-50R apart, too. Wide Band Receive includes 76-200 MHz (VHF), 300-540 (UHF), and 590-999 MHz*. Dual Watch checks sub-band activity while receiving on another frequency, then when a signal is detected, shifts operation to that frequency. Digital

Battery Voltage displays current operating battery voltage. Digital Coded Squelch (DCS) silently monitors busy channels. Auto Range Transpond System™ (ARTS™) uses DCS to allow two radios to track one another. And, the FT-50R is ADMS-1C Windows™ PC programming compatible, too. To round out the FT-50R, it has four battery savers, and super loud audio—remarkable in an HT this size.

A reliable companion where ever you go, the FT-50R is one tough little dual bander with all the features you want!

YAESU
...leading the way.SM

For the latest Yaesu news, hottest products, visit us on the Internet! <http://www.yaesu.com>



FT-10/40R
Ultra Compact Handhelds
VHF or UHF. Similar to FT-50R including MIL-STD 810, and other exclusive features.

YAESU Handheld Transceivers

YAESU

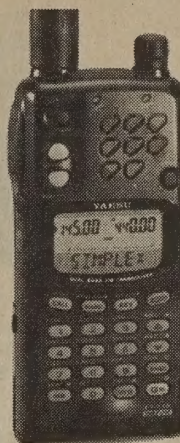
One tough little dual bander!



FT-50R 5W

Dual Band Handheld

- Frequency Coverage
RX 76-200 MHz, 300-540 MHz
590-999 MHz (Cell. Blocked)
TX 144-148 MHz, 430-450 MHz
- AM Aircraft RX
- 112 Memory channels
- Digital Coded Squelch (DCS)
- Built-in Tone Encode
- Tone Decode (opt. FTT-12)
- MIL-STD 810 Rating
- Auto Range Transpond System
- Dual Watch
- High Speed Scanning
- High Audio Output
- Selectable Power Output
- APO - Auto Power Off
- Time Out Timer (TOT)
- ADMS-1C Windows Programmable
- Optional Digital Voice Recording System FTT-12
- Approx. Size-Varies w/Battery
2.2"Wx3.9"Hx1.2"D



FT-51R

Dual Band Handheld

- Frequency Coverage
VHF RX: 110-180 MHz
TX: 144-148 MHz
UHF RX: 420-470 MHz
TX: 430-450 MHz
- AM Aircraft RX
- Spectrascope™ Display
- 120 Memory Channels
80 w/Alphanumerics
- Alphanumeric 8 Character Display
- Dual In-Band Receive
V+V • U+U • V+U
- DTMF Paging and Coded Squelch
- Tone Encode & Decode Built-in
- Large Backlit Keypad
- Large Backlit Display
- Auto Repeater Shift
- Auto Tone Search
- Cross Band Repeat
- Approx. Size-Varies w/Batt.

YAESU

...leading the way

FT-10RVA16D

- Frequency Coverage
RX 140-174 Mhz
TX 144-148 MHz
- MIL-STD 810
- 99 Memory Channels
- DTMF Auto Dial Memories
- Alphanumeric Display
- Digital Coded Squelch
- Tone Encode & Decode Built-in
- True FM
- High Audio Output
- High Speed Scanning
- APO - Auto Power Off
- Rx/Tx Battery Savers
- 12V DC Direct Input
- ADMS-1C Windows™ Programmable
- Approx. Size-Varies w/Battery
2.2"Wx3.9"Hx1.2"D



FT-11/R38B 5W • FT11R 1.5W

- Frequency Coverage
2-Meter 110-180 MHz RX
144-148 MHz TX
AM Aircraft RX 110-136 Mhz RX
- Selectable Alpha Numeric Display
- 150 Memory Channels
- 10 Memory DTMF Auto-dialer
- New Compact Battery Design
Supplied 4.8V produces 1.5 Watts
Optional 9.6V produces 5 Watts
- Built-in DTMF Paging/Codel Squelch
- Tone Encode Built-in
- Tone Decode (opt. FTS-26)
- Large Back-Lit Keypad and Display
- APO - Auto Power Off
- Rx/Tx Battery Savers



Measures Only:
4"H x 2.25"W x 1"D

**70 Watts
on Two Meters**



FT-3000M

- Frequency Coverage
RX 110-180 MHz
300-520 MHz
800-999 MHz
Cellular Blocked
TX 144-148 MHz
- AM Aircraft Receive 110-139 MHz
- 81 Memory Channels
- Interactive Programming
- Power Output 70/50/25/10 Watts
- Backlit DTMF Microphone
- Tone Encode Built-in
- Tone Decode (opt. FTS-27)
- DCS-Digital Coded Squelch
- Alphanumeric Display
- DC Cord • Mounting Bracket
- 5.5"W x 1.6"H x 7.1"D

FT-2500M 2M Mobile



Just when you thought you had the most formidable mobile built, Yaesu made the FT-2500M. It's the next evolution of powerful rugged mobile radios. The FT-2500M, based on the acceptance of the popular FT-2400H, takes its durable quality, features, and performance then goes one better! The FT-2500M has a new easy-to-operate front panel design with rubber coated knobs and large amber display, and the Yaesu exclusive 3-Stage Advance Track Tuning feature which reduces intermodulation and front-end overload.

- Frequency Coverage
RX 140-174 MHz
TX 144-148 MHz
- Rugged Military Spec Design
- Advanced Track Tuning(ATT)
- Selectable Alpha-Numeric Display
- Largest Display Available
- Power Output 50/25/5 Watts
- Flip Down Front Control Panel
Hides Seldom Used Buttons
- Backlit DTMF Mic
- 31 Memory Channels
- Tone Encode Built-in
- Tone Decode (opt. FTS-17A)
- TOT - Time-out Timer
- Backlighting Adjustment
- APO - Auto Power Off
- DTMF Paging (Opt. FRC-6)

YAESU

**Advanced technology with
no-nonsense operating ease.**

FT-8000R Dual Band Mobile

**Now, a dual band that's
so advanced it's simple!**

- Frequency Coverage
RX 110-550 MHz, 750-1300 MHz
(Cellular Blocked)
TX 144-148 MHz, 430-450 MHz
- 3 Power Output Levels
2M 50/10/5 Watt
70cm 35/10/5 Watt
- 110 Memory Channels
- Enhanced Smart Search™
- Tone Encode Built-in
- Tone Decode (opt. FTS-22)

- Dual Rx V+V, U+U, V+U
- Crossband Repeat
- Programmable w/opt. ADMS-2C
- Auto Power Off
- MIL-STD 810 Rating
- Omni-Glow Display
- 1200/9600 bps Packet Compatible
- One DTMF Autodialer Memory
per Band

5.6"W x 1.6"H x 6"D



**The FT-8000R Compact
Dual Band Mobile introduces
industry-first features in a user
friendly, easy-to-operate combination..
Built to last, the FT-8000R brings together the
most-requested dual band features and a MIL-
STD 810 rating, for enduring performance.**



**Computer
Programmable!**

**Detachable
Front Panel!**

**Front Panel
Data Jack!**

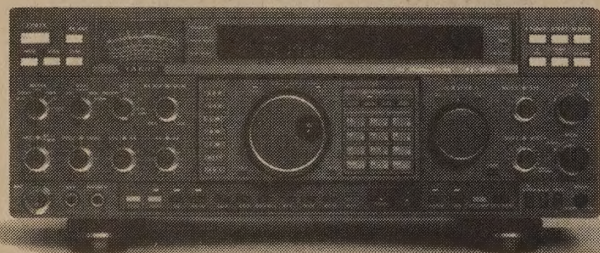
5.6"W x 1.6"H x 6.4"D

FT-8500 Dual Band Mobile

- Frequency Coverage
RX 110-174 MHz
410-500 MHz
TX 144-148 MHz
430-450 MHz
- 3 Power Output Levels
2M 50/10/5 Watt
70cm 35/10/5 Watt
- 110 Memory Channels
In 5 Memory Banks
- Tone Encode Built-in
- Tone Decode (opt. FTS-22)
- Dual Rx V+V, U+U, V+U
- Crossband Repeat
- Programmable w/opt. ADMS-2C
- Auto Power Off
- MIL-STD 810 Rating
- Omni-Glow Display
- Selectable 1200/9600 bps
- 9 Memory Autodialer Memories
- Time-Out Timer
- Adj. LCD Contrast & Brightness
- 6 Character Alphanumeric
Display

Yaesu did it again!

YAESU FT-1000/FT-1000D



FT-1000D HF All Mode Transceiver

Dual Channel Reception 100 kHz to 30 MHz
Two Dual Speed Tuning Knobs • Dual Display
Two Rx Front Ends and IF Strips
Front Panel Keypad For Key In Of Operating Frequency
99 Scanable Memories • Iambic Electronic Speed Keyer
Power Output Up To 200 Watts • Heavy Duty Power Supply
Automatic Antenna Tuner With 39 Memories • Hand Mic
XF-A 8.2 MHz SSB 2.0 kHz • XF-B 8.2 MHz CW 250 Hz
16.53"W x 5.90"H x 14.76"D

The Following Items Are Included With FT-1000D And Optional For The FT-1000
TCXO-1 Temperature Compensated Crystal Oscillator
BPF-1 Dual BPF for Cross Band Service
IF Crystal Filters: XF-C 455 kHz SSB 2.4 kHz
XF-D 455 kHz SSB 2.0 kHz • YF-110C 455 kHz CW 500 Hz

YAESU FT-736R

**VHF/UHF
All Mode
Transceiver**



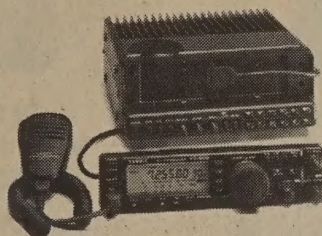
FT-736R All Mode Multi-Band VHF/UHF

SSB • CW • FM • 144-148 MHz • 430-450 MHz
Space For Two Additional Band Units
Optional Bands 50 MHz, 220 MHz & 1.2 GHz
600 Hz CW Filter • FM Filter • Satellite Duplexer
100 General Purpose Memories
Ten Full Duplex Cross-band Memories
Tone Encode & Decode (opt. FTS-8)
Memories Store Mode and RX/TX Frequencies
Two Full Duplex VFOs Linkable For Satellite Operation
Includes Hand Mic
14.58"W x 5.07"H x 11.25"D

YAESU

**Now
Collins
Mechanical Filter
Built-in**

FT-900CAT



**Now
Collins
Mechanical Filter
Built-in**

- Remote front panel design
- Built-in auto antenna tuner
- Direct keypad entry when used as a base station
- Large, bright omni-glow LCD display
- 100W on SSB, CW, FM modes; 25W AM
- IF Shift and 30db Notch Filter
- Digital S/R, SWR & ALC Meters
- Programmable CTCSS Encode w/repeater offset
- Direct Digital Synthesis(DDS)
- 100 memory channels
- Frequency Range
RX: 100kHz-30 MHz
TX: 160-10 meters
- CW full break-in keying w/adj. speed
- Fast/slow AGC circuit
- Intercept Point Optimization
- Duct flow cooling system
- Twin band stacking VFOs
- Built-in noise blanker
- Built-in adj. speech processor
- Hand Mic • DC Cord
- 9.3"W x 3.6"H x 9.9"D

Uncompromising HF quality that will change your lifestyle. It's the first transceiver with true HF technology to go mobile in any vehicle or stay at home as a compact base station.

With its revolutionary, small, snap-off remote panel, the controls of the FT-900CAT can install almost anywhere in your car, truck or camper. Since the 100 watt RF deck can be installed under a seat or in your car trunk, it's away from critical automotive electronic wizardry.

As a base station, the compact full function FT-900CAT includes direct keypad entry for pinpoint accuracy during quick band/frequency changes. Other features you'll include CW keyer with front panel speed adjustment, speech processor, twin stacking VFOs, and IF Shift and Notch. No competitor offers this! Bonuses, such as signal strength, power output, SWR and ALC digital meters, add value to the FT-900CAT, and the proven duct-flow cooling system provides excellent long-term transmit power output reliability and frequency stability.

For sheer high-performance, anywhere, the incomparable FT-900CAT ranks with the FT-1000 to further YAESU as the choice of the world's top DX'ers.

An HF Masterpiece, Combining the Best of Digital and RF design technology. The FT-1000MP

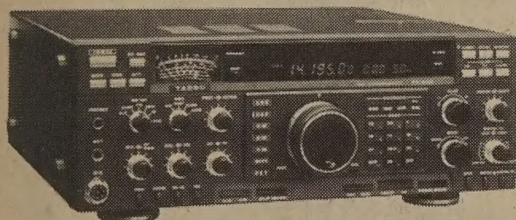
- EDSP-Enhanced Digital Signal Processing
- Shuttle-jog Rapid Tuning Enhancement
- Directional Tuning Scale for CW/Digital mode and clarifier offset display
- Dual In-Band Receive w/Separate S-Meters
- Selectable Antenna Jacks
- Adjustable TX Output Power
- Collins SSB Mechanical Filter Built-in 500 Hz CW Collins Filter Optional
- Selectable Cascaded Crystal and Mechanical IF Filtering
- User-programmable Tuning Steps
- Low Noise DDS Circuit
- Custom Feature Set-up via New Menu System

EDSP operates in both transmit and receive modes. On receive, the EDSP produces enhanced signal-to-noise ratio and significantly improved intelligence recovery during difficult situations involving noise and/or interference. The result of hundreds of hours of laboratory and real-world experimentation.

FT-1000MP All Mode HF Transceiver



YAESU FT-990/FT990DC



FT-990 HF All Mode Transceiver

General Coverage Receiver 100 kHz to 30 MHz
Front Panel Keypad For Direct Key Entry of Frequency
A/B VFOs & 90 Tunable Scannable Memories
Stores Frequency, Mode, IF Filter, Offset & Scan Status
Iambic Electronic Speed Keyer
Power Output Up To 100 Watts On HF Amateur Bands
Automatic Antenna Tuner With 39 Memories
Internal Heavy Duty Power Supply
XF-109C 500 Hz CW Filter
Hand Mic MH-1B8
14.48"W x 5.07"H x 13.18"D

FT-990DC

Same As FT-990

Without AC Power Supply & CW Filter

YAESU FT-840

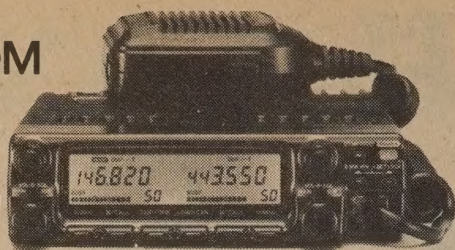
**Compact High
Performance
HF Transceiver**



A wealth of features and high-tech performance in the field or mobile, this HF won't break your budget. With its new intense LCD display, die-cast heat sink and internal thermally switched fan, you'll take this perfect companion with you everywhere.

- Frequency Coverage:
RX: 100 kHz-30 MHz TX: 160-10 m Amateur Bands
- 100 Memory Channels (Independent TX/RX per memory)
- Twin Band Stacking VFOs
- FM Mode (opt. FM-747)
- CW Reverse Feature • IF Shift • Bright LCD Display
- Compact Size 9.38"W x 3.63"H x 9.5"D
- Hand Mic • DC Cord

ICOM



5.5"W x 1.6"H x 8.06"D

IC-2350H

New Lower Price!

DUAL BAND FM TRANSCEIVER
VHF 144-148 MHz • UHF 440-450 MHz
45 WATT VHF • 35 WATT UHF
Independent Controls And Switches
For Each Band

- ☐ Independent Controls
- ☐ 110 Memory Channels
- ☐ Large Easy To Read Display
- ☐ Built-in Duplexer
- ☐ Built-in Tone Encoder
- ☐ Auto Repeater Shift
- ☐ Wide Band 118-174 MHz
- ☐ Direct Frequency Input (opt. UT-101)
- ☐ 2.4 Watts Audio
- ☐ Tone Scan & Tone Decode (Opt. UT-89)
- ☐ Pager & Code Squelch (opt. UT-101)
- ☐ Adjustable Attenuator

A Combination of Great Features at a Very Affordable Price!

IC-2710H



5.5"W x 1.6"H x 8.38"D

DUAL BAND FM TRANSCEIVER
VHF 144-148 MHz • UHF 440-450 MHz
50 WATT VHF • 35 WATT UHF

- ☐ Detachable Front Panel
- ☐ 220 Total Memory Locations
- ☐ Full Remote Control Microphone With HM-98 Included
- ☐ Large Easy To Read Display
- ☐ Built-in Duplexer
- ☐ Built-in Tone Encoder
- ☐ 8 DTMF Autodial Memories
- ☐ Wide Band Receive 118-174 MHz, 400-470 MHz
- ☐ Direct Frequency Input
- ☐ V/V or U/U - Simultaneous Receive of 2 Signals on the Same Band
- ☐ 2.4 Watts Audio
- ☐ Tone Decode (Optional UT-104)
- ☐ Pager and Code Squelch (Optional UT-49)

IC-2710H - Easy Control on the GO!

ICOM's New Dual Bander
Has an Easy to Use
Full Control Mic!

ICOM

IC-2000H

2M FM 50 WATT TRANSCEIVER
Rx 118-174 MHz • 118-136 MHz AM Tx 140-150 MHz



5.5"W x 1.6"H x 6.7"D

- ☐ AM Aircraft Receive
- ☐ 50 Memory Locations
- ☐ 2 Scratch Pad Memories
- ☐ Alphanumeric Display
- ☐ Large Easy To Read Function Display
- ☐ Pager And Code Squelch UT101 Required
- ☐ Tone Scan & Tone Decode (UT-85 Required)
- ☐ Remote Control Microphone
- ☐ Auto-power Off Function
- ☐ Busy Channel Lockout
- ☐ 6 Scan Edge Memories
- ☐ Separate Volume and Squelch knobs

IC-W32A

DUAL BAND 2M/70CM
5 WATT HANDHELD

Rx 118-174 MHz • 440-470 MHz
Tx 144-148 MHz • 440-450 MHz



5 Watt

- ☐ Dual Receive
- ☐ Dual Display
- ☐ 100 Memory Channels Each Band
- ☐ Tone Decode Standard
- ☐ Tone Encode Built-in
- ☐ Easy-To-Read Display
- ☐ PC Programmable
- ☐ Alphanumeric Capability
- ☐ Receive V/V, U/U, V/U
- ☐ Separate Speaker Controls
- ☐ Improved Audio
- ☐ 2.2"W x 4.9"H x 1.2"D

Similar to above

IC-T22A

2M HANDHELD • 3 WATT

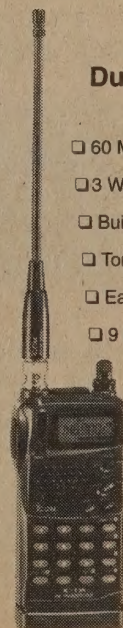
Rx 136-174 MHz • Tx 144-148 MHz



- ☐ 80 Memory Channels 40 When Using Alphanumerics
- ☐ Built-in Pager & Code Squelch
- ☐ Built-in Tone Encode
- ☐ Tone Decode (opt. UT-94)
- ☐ Alphanumeric Capability
- ☐ Easy-To-Read Display
- ☐ 5 DTMF Memory Autodialer
- ☐ LCD backlighting
- ☐ AM Aircraft Receive
- ☐ 2.25"W x 4.81"H x 1.13"D

IC-T7A

Dual Band Handheld

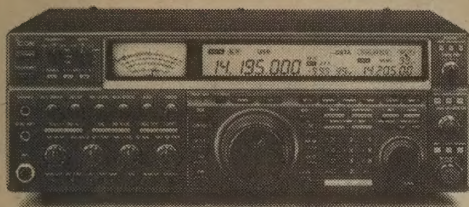


- ☐ 60 Memory Channels
- ☐ 3 Watt w/BP-180 Included
- ☐ Built-in Tone Encode & Tone Squelch
- ☐ Tone Scan Included
- ☐ Easy-To-Read Display
- ☐ 9 DTMF Memory Autodialer
- ☐ Low Power Option
- ☐ Auto Repeater Function
- ☐ Power Saver Function
- ☐ 2.25"W x 4.8"H x 1.13"D

Powerful Versatility
In A Rugged,
User-Friendly
Handheld

ICOM

IC-775DSP



REVOLUTIONARY IF-DSP TECHNOLOGY

- ICOM DSP on Transmit and Receive
- 200 Watt MOS FET PA w/Built-in Power Supply
- Dual Receive • Twin Pass Band Tuning
- Built-in Automatic Tuner • Dual Receive
- Digital Noise Reduction & Filtering
- Digital Low and High Pass Filters
- Digital Automatic Notch
- Digital Ultra-Narrow CW Filter
- HF Packet Ready • Memory CW Keyer
- 99 Memory Channels • RTTY/DATA Mode
- Built-in Automatic Antenna Tuner

IC-707



IC-707

100 Watt HF Transceiver
Rx 500 KHz - 30 MHz
SSB CW AM • 32 Memory Channels
FM Optional w/UI-9
LCD Display • Front Mount Speaker
Hand Mic • DC Cord
9.4W x 3.7H x 9.4D in

IC-756

H F + 6 M TRANSCEIVER



with DSP

*Coming
Soon!*

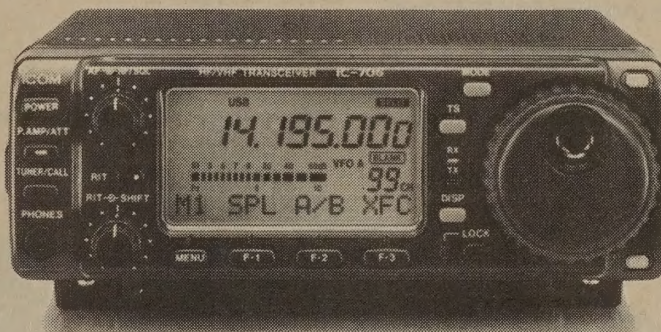
Simply The Best!

ICOM

IC-706

HF + 6M + 2M

You've got to get one!



Powerful 100 w from HF to 50 MHz and 10 W for 144 MHz

101 Memory Channels with Dotmatrix Display

All Mode including SSB, CW, RTTY, AM and FM

- | | |
|--|---|
| <input type="checkbox"/> 100W on HF & 6 meters, 10W on 2 meters | <input type="checkbox"/> Weighs only 5 1/2 pounds |
| <input type="checkbox"/> General Coverage Rx • User friendly design | <input type="checkbox"/> Super compact 6.56"W x 2.25"H x 7.88"D |
| <input type="checkbox"/> Removable, remoteable front panel controls all features | <input type="checkbox"/> Continuously receive 30 kHz to 200 MHz |
| <input type="checkbox"/> Large LCD display featuring alphanumeric memory names & soft key descriptions | <input type="checkbox"/> IF shift interference rejection |
| | <input type="checkbox"/> Spectrum scope frequency function |

*The New Leader
In Satellite
Communications!*

IC-821H



Dual Band All Mode Transceiver

45 W (FM, CW), 35/6 W (SSB) VHF • 40 W (FM, CW), 30/6 W (SSB) UHF

- | | |
|--|--|
| <input type="checkbox"/> Built-in Auto Satellite Functions | <input type="checkbox"/> 2 VFOs Each for VHF and UHF Bands |
| <input type="checkbox"/> All Modes In A Compact Case
9.5"W x 2.7"H x 10.0"D | <input type="checkbox"/> 160 Memory Channels |
| <input type="checkbox"/> "Plug And Play" 9600 bps Operations | <input type="checkbox"/> Stereo Headphone Jack |
| <input type="checkbox"/> Built-in High Stability Crystal (+/- 3 ppm) | <input type="checkbox"/> 2 Antenna Connectors |
| <input type="checkbox"/> Independent Controls with Sub Tuning | <input type="checkbox"/> Noise Blanker <input type="checkbox"/> RIT Function |
| <input type="checkbox"/> IF Shift (electronically shifts for effective interference reductions) | <input type="checkbox"/> Memory Allocation Functions |
| <input type="checkbox"/> Satellite Memory and Tracking Function
(rev./normal tracking on main/sub band) | <input type="checkbox"/> Built-in electronic keyer |
| <input type="checkbox"/> Doppler Compensation Function | <input type="checkbox"/> CW Semi-Break In and Side Tone |
| <input type="checkbox"/> Data Jack for Packet Ops (9600 bps) | <input type="checkbox"/> AF Speech Compressor (audio) |
| | <input type="checkbox"/> CW Narrow Filter (optional) |

KENWOOD

Kenwood's High-Performance TS-450SAT/TS450S/TS-690S



160m to 10m amateur band operation with 500 kHz to 30 MHz general coverage receiver TS690S Includes 6m amateur band operation 50 to 54 MHz 50 Watts On 6m

- 100 Memory Channels
- Automatic Antenna Tuner 80-10M Included in TS450SAT Only
- 100 Watts Output Power
- Direct Keyboard Input of Frequency
- IF Shift Tuning
- Tunable AF Notch Filter
- Requires 13.8V Power Supply
- 10.63"W x 3.78"H X 12.01D



Kenwood's Competition Class TS-850SAT

160m to 10m amateur band operation with 100 kHz to 30 MHz general coverage receiver

- 100 Memory Channels
- 100 Watts Output Power
- Built-in Automatic Antenna Tuner
- IF Slope Tuning • Auto SWR Meter
- Dual-mode Noise Blanker With Level Control
- Requires 13.8V Power Supply
- 12.99"W x 4.72"H x 13.15"D

Kenwood's Compact TS-50S



160m to 10m amateur band operation with 500 kHz to 30 MHz general coverage receiver

Kenwood's TS-60S:

50 MHz All Mode Transceiver

The new TS-60S is a 50 MHz all-mode transceiver that's small enough for mobile or DX-expedition use, yet delivers an impressive 90 watts output.



Affordable DSP

The New Kenwood TS-570D

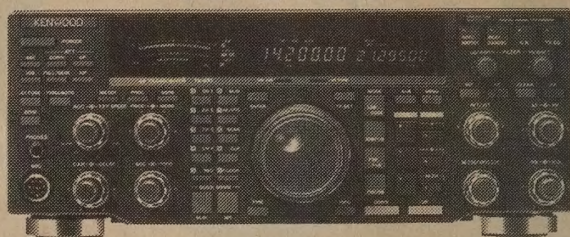
- 16-bit DSP technology for superb audio quality on both transmit and receive
- Scrolling Menu system offers 46 types of functions • Large LCD Display
- Automatic antenna tuner • Dedicated packet port • CW Auto Tune
- Radio Control Program software allows PC control of radio
- RS-232 computer port for up to 57,600 bps PC control • Electronic Keyer
- TX: 160 - 10M amateur bands • RX: 500 KHz to 30 MHz

Coming Soon!

Intelligent Digital Enhanced Communications System

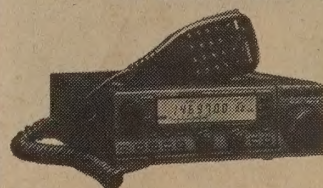
Kenwood's HF Treasure

TS-870S



- State Of The Art IF Stage DSP
- 100 Memory Channels
- Built-in Tone Encoder
- Built-in Auto Antenna Tuner
- 5 Channel Quick Memory
- Full Scanning Capability
- IF Digital Auto-Notch
- Beat Cancel ■ Variable AGC
- 60 Second Digital Record Unit w/Opt. DRU-3
- 100 Watts Output on SSB, CW, FSK
- 100 kHz - 30 MHz General Coverage Rx
- Speech Processor
- Selectable Transmit Equalizer
- Two Noise Reduction Methods
- 57.6 Kbps Computer Control
- Easy-Access Menu System
- Dual Antenna and Rx Out
- Voice Synthesizer Unit w/Opt. VS-2

144 MHz All Mode Transceiver



Kenwood's TM-255A:

- Frequency coverage: 144-148 MHz
- 101 memory channels ■ Dual VFOs (A & B)
- Compact design 7-1/16W x 2-3/8H x 8-1/2D in.
- 40 watts maximum output power
- Large LCD display with digital bar meter
- Twin tuning dials ■ Dual-menu system
- Tone encode built-in ■ Tone decode (opt. TSU-8)
- Built-in DTSS with page ■ AIP

Kenwood's Innovative TM-733A

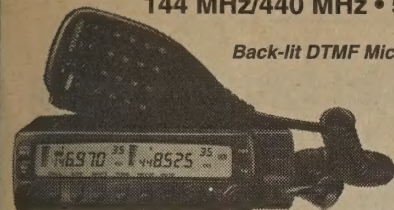
144 MHz/440 MHz • 50/35 Watts

Back-lit DTMF Mic!

KENWOOD

6-pin Mini
DIN Connector
For 1200/9600 bps Packet

Detachable Front Panel
with Optional
DFK-3B Or DFK-4B



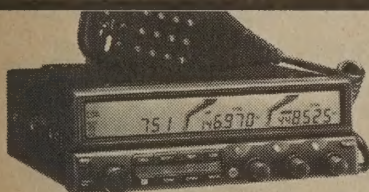
- Dual Band Receive V+V • U+U • U+V
- 72 Memory Channels
- Built-in DTSS Selective Calling With Page
- Built-in Tone Encoder Tone Decode (Opt. TSU-8)
- S-meter Squelch
- DC Cord • Mount Bracket
- Automatic Band Change
- Wireless Clone Function
- Dimmer Control
- Auto Power Off
- Cross Band Repeater
- Separate Speaker Terminals
- 5.5"W x 1.6"H x 6"D

Kenwood's Reliable TM-261A



Rx 118-174 MHz • Tx 144-148 MHz • 50 Watts

- 61 Memory Channels
- Tone Encode Built-in
- Tone Decode (Opt. TSU-8)
- Multi-scan Capability
- 6 Digit Alphanumerics
- Time-out Timer
- DTMF Mic • DC Cord Mounting Bracket
- DTSS And Pager Function Dual Tone Squelch System
- Rx AM Aircraft
- Auto Repeater Offset
- 10 Autodial Memories
- Backlit Microphone
- Large LCD Display
- 5.5"W x 1.56"H x 6.56"D



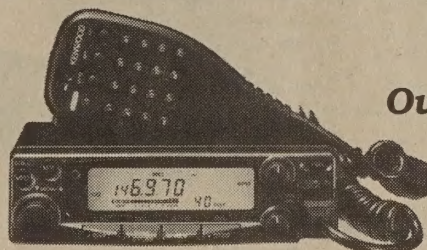
Optional Band Units
28 MHz 50 Watt
50 MHz 50 Watt
220 MHz 25 Watt
1200 MHz 10 Watt

Kenwood's Versatile TM-742A

144 MHz/440 MHz • 50/35 Watts

2-plus-1 Multiband Capability In A Portable Package

- 101 Memory Channels Per Band
- DTMF Mic • DC Cord Mounting Bracket
- Direct Frequency Input From Keypad
- DTSS, Pager Function and DTMF Auto-dial Memories
- Detachable Front Panel With DFK4 or DFK7
- Cross Band Repeat
- Remote Control w/Handheld
- Dual/Triple Receive
- Tone Encode Built-in Tone Decode (opt. TSU-7)
- Clock, Timer and Calendar
- Separate Antenna Terminals For Each Band
- Separate VOL and SQL For Each Band
- Multiple Scan Modes
- Automatic band Change
- 5.91"W x 1.97"H x 6.89"D



**Shift
Into
Overdrive!**

Kenwood's TM-251A

2M TRANSCEIVER WITH UHF RX • 50 WATTS

Rx 118-174 MHz 300-470 MHz Tx 144-148 MHz

- 50W Output Power
- 41 Memory Channels
- S-meter Squelch
- 6-pin Mini DIN connector 1200/9600 bps packet
- Auto Repeater Offset
- Tone Encoder Built-in
- Tone Decode (Opt. TSU-8)
- 200 Memory Channels (Opt. ME-1)
- DTSS With Paging
- Built-in Digital Recording System
- Multi-function Mic With DTMF Easy to Operate
- 5 Step Dimmer Control
- 10 DTMF Autodial Memories
- 5.5"W x 1.6"H x 6.3"D

Kenwood's TH-22AT: The Compact Solution

KENWOOD

- 3-watt output from MOS FET power module and supplied 6-volt battery
- 5-watt output with optional PB-34
- Compact design 2-3/16x4-5/8x1 in.
- Built-in DTMF keypad with monitor
- Built-in DTSS page system
- Large 1-7/16" speaker
- 41 E²PROM memory channels including 1 call channel
- Multiple scan functions VFO, call and memory
- Tone Encode Built-in Tone Decode(opt. TSU-8)
- Auto power off & battery saver circuit



Kenwood's TH-79AD/H FM Dual Bander

Information at your fingertips. Everything you need to know about operating the new TH-79A dual bander (144 MHz/440 MHz) can be viewed in its unique dot-matrix LCD with alphanumeric display. No need for the manual.

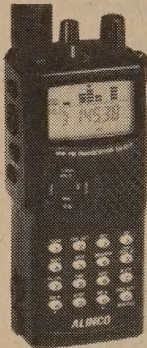
- 2.7W output (144 MHz) 2W (440 MHz) with supplied 6V battery
- 5-watt output with optional PB-34
- Compact design 2-3/16 x 5-1/8 x 1 in.
- Dot-matrix LCD w/ menu/guide system
- 82 non-volatile memory channels
- DTMF keypad with memory function
- DTSS (Dual Tone Squelch System)
- Tone encode/decode built-in
- Auto repeater offset



ALINCO



DJ-G5
2m/70cm Handheld
2 Watt • V/V, U/U, V/U
100 Memory Channels
Rx 108-174 MHz
Rx 420-480 MHz
Rx AM Aircraft
Tx 144-148 MHz
Tx 438-450 MHz
Tone Encode & Decode
DTMF Decode
Back-lit Keypad
2.25"W x 5.5"H x 1.13"D
Channel Scope!



DJ-G1T
2M Handheld
2 Watt
80 Memory Channels
Rx 108-174 MHz
Rx 400-520 MHz
Rx AM Aircraft
Tx 144-148
Tone Encode
Tone Decode (opt. EJ-16U)
DTMF Decode
Illuminated Keypad
Auto Dialer
Channel Scope!

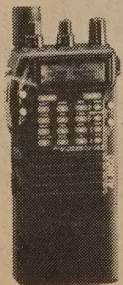


Large Display & Effortless Entry

**DJ-191T
DJ-191TH**
Two Meter
1.5 Watt • H 5 WATT
Rx 135-174 MHz
Tx 144-148 MHz
40 Memory Channels
9 Auto-dialer Memory Channels
Tone Encode Built-in
Tone Decode (opt. EJ-28U)
6"H x 2.25"W x 1.06"D

DJ-180T DJ-180TH

Two Meter
2 Watt • H 5 WATT
Rx 130-174 MHz
Tx 144-148 MHz
10 Memory Channels
50 Or 200 Memories w/Option
DTMF Keyboard
Tone Encode & Decode
5 3/4"H x 2.3"W x 1.3"D



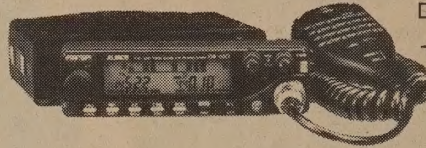
DJ-582T
2M/70CM
2 Watt/2 Watt
40 Memory Channels
Rx 130-174 MHz
Rx 400-520 MHz
Rx AM Aircraft w/Mod
Tx 144-148
Tx 440-450 MHz
Tone Encode & Decode
DTMF Decode
6"H x 2.3"W x 1.3"D

The New DR-605T Dual Band Mobile Full 2 Meter/440 Performance at a Very Affordable Price!



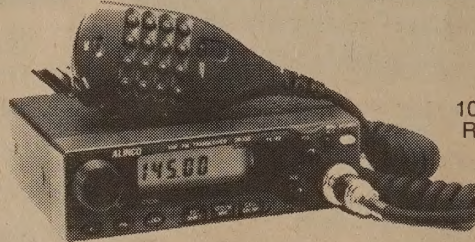
- 100 memory channels
- Cross-band repeat and full duplex
- Internal duplexer
- Rx VHF 136-173.995 MHz
- Rx UHF 420-470 MHz
- Tx-VHF 144-147.995 MHz
- Tx-UHF 430-449.995 MHz
- Tone encode Plus tone burst
- Tone decode (opt. EJ-24U)
- 9600 bps packet ready

Channel Scope



DR-610T

Dual Band 2M/70CM Transceiver
Detachable Front Panel (Opt EDC-2 Req'd)
50 Watt/35 Watt • 120 Mem. Channels
Tone Encode • Tone Decode (opt. EJ-24U)
DTMF Decode
Built-in Duplexer • Aircraft AM Rx
DTMF Mic • DC Cord • Mounting Bracket
5-9/10" x 2" x 7"



DR-130T

Two Meter Transceiver
50 Watt • 20 Memory Channels
100 Memory Ch (Opt. EJ-19U Req'd)
Rx 140-174 MHz • Tx 144-148 MHz
Tone Encode Built-in
Tone Decode (opt. EJ-20U)
DTMF Mic • DC Cord
Mounting Bracket
5-1/2"W x 1.5"H x 6"D

Channel Scope!

9600 bps Ready!

Air Cloning!



DR-150T

Two Meter Transceiver w/UHF Rx
50 Watt • 100 Memory Channels
Direct Frequency Entry
Rx 108-174 MHz • 440-450 MHz
Tx 144-148 MHz
Easy Access Auto-dialer
Tone Encode • Tone Decode (opt. EJ-20U)
AM Airband Rx • DTMF Decode
DTMF Mic • DC Cord • Mounting Bracket
5-1/2"W x 1.5"H x 6"D

HF + 50 MHz ALL MODE TRANSCEIVER

DX-70

- **HF Bands + 50 MHz Operation**
Covers the 160 meter to 6 meter amateur bands at 100W output on HF and 10W output on 6 meters.
- **Modes include SSB, CW, AM and FM**
FM is standard. Try your local 10m and 6m repeaters.
- **Wide range General Coverage Receiver**
General coverage receiver 150 kHz to 30 MHz and 50 MHz to 54 MHz.
- **100 Memory Channels**
Each memory remembers frequency & mode.
- **Super Compact Body**
7"W x 2.25"H x 9.05"D
- **Tone Encoder Built-in**



The DX-70's completely detachable front panel and the optional remote mount accessory kit are available to suit a wide range of applications. The DX-70 includes a separate multi function dial that can change bands, memory channels and channel spacing. The DX-70 gives you exceptional value with powerful CW operation.



Standard Amateur Radio

C5900DA

3 Bands...2, 70cm, & 6 meters!
One compact package.



- CTCSS Encode/Decode
- Antenna triplexer built-in
- Double balanced mixer & tracking
- Front end – tough against intermod
- 1200-9600 baud packet, etc.

C5718DA

Twin Band

- Compact with Hand Held Control/Mike
- U/U & V/V or V/U Operation
- Wide Band Receive
- 40 Memories – Expandable
- CTCSS Encode/Decode Std
- 10 DTMF Memories
- Much Much More



C508A

Twin Band

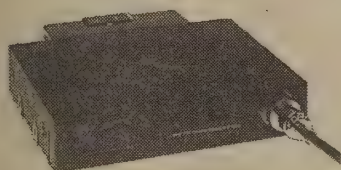
- VHF + UHF In Your Shirt Pocket
- Compact Size
- 60 Memories
- CTCSS Encode/Decode
- Wide Band Rx + AM Air
- 3 Scan Modes
- APO



C108 Single Band 2 Meter Available

C1208DA

- Full Feature 2 Meter
 - 3 Level Output
 - Wide Band
 - CTCSS/Encode/Decode
- Have the works in your hand & more!



C568A

3 Bands 2, 70cm, 23cm

- 40 Memories (200 opt.)
- Wide Band Rx
- APO
- CTCSS Encode/Decode Std
- Low Intermod
- Dual Watch



C558A

Twin Band 2/70cm

- Compact Design
- 40 Memories Std (200 opt.)
- DTMF Memories
- Wide Band Rx
- 5 Scan Modes



NEW!

C156A

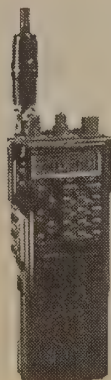
- Dot Matrix Display
- 9600 Baud Pkt
- 100 Memories
- 9 DTMF Memories
- Alpha-Numeric Memories
- CTCSS Encode
- Auto Power Off



C228A

Twin Band 2 Meter/220 MHz

- 40 Memories
- CTCSS Encode/Decode
- Clone Mode
- Wide Band Rx
- DTMF Squelch with Paging
- & More



C288A

220 MHz

- Slim Line H.T.
- Keypad Cover
- 40 Memories (200 opt.)
- Wide Band Rx
- CTCSS Encode/Decode
- 3 Scan Modes
- DTMF Squelch with Paging

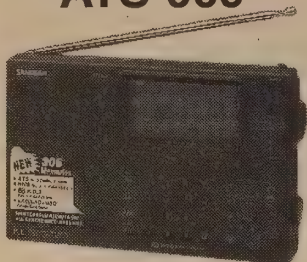




Scanners & Shortwave

We have more than we can put on a page...but here's a sample!

ATS-909



Here's another winner from Sangean with new styling, compact size and alphanumeric editing. Compare the listed features, & you'll approve of its great value. Other model available.

- 306 Memories
- 5 Tuning Methods
- USB, LSB, CW, AM, FM Modes
- Wide, Narrow Filter
- 42 World Time Zones
- 3 Timers & Much More

Yacht Boy 400

The Yacht Boy 400 provides the ultimate in digital technology to maximize receivability. Features include coverage of 150 - 350 KHz & .530 - 30 MHz with the FM band included as well. Modes include AM, FM, SSB and CW with a wide/narrow switch & 40 memories. The compact size provides great audio with dual alarms, dual clocks & a sleep timer.



Uniden



BC 9000XLT

Continuous band scanner from 25 MHz through 1.3 GHz. Fully programmable with 500 channels, 20 banks, 10 priority channels, dot matrix-alpha numeric illuminated display, auto store, VFO knob, TWIN TURBO™, scan and search.

BC 3000XLT similar to above in HT model.

YAESU



FRG-100

Table Top Rx

- 50 KHz - 30 MHz & FM
- 50 Memories
- Noise Blanker
- 10 MHz, 100 & 1 KHz Tuning Steps
- Twin Clocks
- Scan Mode

Sony ICF-2010



Covers 150 KHz-30 MHz and 76-108 MHz FM and 116-136 MHz; AM/FM/SSB/CW. Tunes manually or by keyboard entry, automatic scanning, memory scan or 32 memory presets. LCD display, switchable IF bandwidth, fine tune. 12/24-hour clock with alarm, programmable timer and sleep timer.

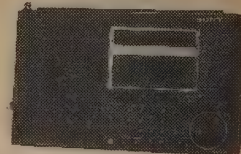
Sony ICF-SW7600G

World Band Receiver covers 150 KHz-30 MHz and 76-108 MHz FM (stereo with earphones). Synchronous AM detection, SSB and FM stereo (headphones). 10-key Direct Access Tuning™ and 20 station presets, LCD display. Tone control, external antenna and record jacks, clock/timer with sleep and standby functions.



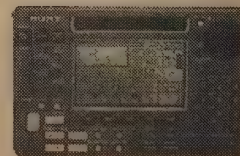
Sony ICF-SW77

Covers 150 KHz thru 30 MHz as well as the F.M. Band. Features include 100 station memories, (162) frequencies), allows stations to be selected by name and is capable of storing broadcast schedules. Programmable six-character Station Name Display, fine 50 Hz tuning resolution, FM stereo with headphones, bass and treble controls.



Sony ICF-SW55

Covers 150 KHz thru 30 MHz as well as the F.M. Band. Factory preset tuning provides access to most listened to broadcasts. Tuning methods include: preset station, direct, scan or rotary dial. 125 memories.



AOR AR8000

- All Mode - All Band
- 500 KHz - 1900 MHz
- 1000 Memories
- Band Scope
- Alpha-Numeric Comments
- Selectable Squelch
- Serial Port & Much More



Optoelectronics

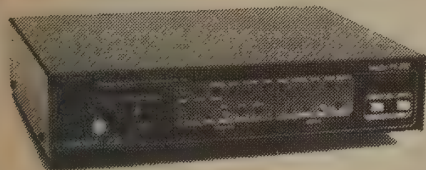


Scout

Scantastic fun is yours with the frequency recordability of the Scout.

AEA

AEA PK-232MBX



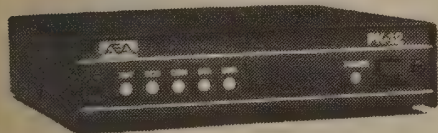
Multi-Mode Data Controller
 HF/VHF Packet • CW • RTTY • PACTOR
 AMTOR • WeFAX • NAVTEX • ASCII
 PakMail™ Mailbox With 18K Byte
 SIAM™ Signal ID and Acquisition Mode
 Eight-pole Chebyshev Bandpass Filter
 Tuning Indicator For Easy Operation
 Computer Cable Included - 25/25 Pin
 Two Radio Cables Included
 Radio Plugs Required
 Optional AC-4 Power Supply
 One Year Limited Warranty
 11"W x 8.25"D x 2.5"H

AEA DSP-232

The new DSP-232 has two software selectable radio ports for 9600 & 1200 bps VHF Packet, HF Packet, Pactor, Amtor/Sitor, CW, RTTY (ASCII & Baudot), and NAVTEX.

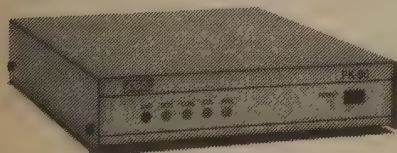
AEA's approach takes full advantage of the fast host processor. This gives you superior filtering, allowing you to cut through noise and receive signals.

AEA PK-12



VHF Packet TNC
 1200 bps VHF/UHF Packet Controller
 MailDrop Mailbox With 18K Byte
 Radio Cable Included - Radio Plug Required
 Requires Computer Cable
 Power Requirements 80 mA 13.6 VDC
 One Year Limited Warranty

AEA PK-96

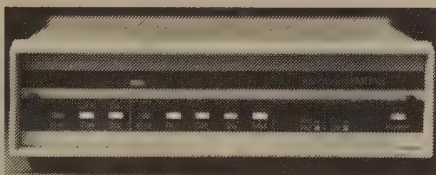


**High Speed
 Packet Controller**

VHF Packet TNC
 1200/9600 bps VHF/UHF Packet Controller
 MailDrop Mailbox With 18K Byte
 Radio Cable Included - Radio Plug Required
 Requires Computer Cable
 Power Requirements 80 mA 13.6 VDC
 One Year Limited Warranty
 6.13"W x 7.4"D x 1.35"H

KANTRONICS

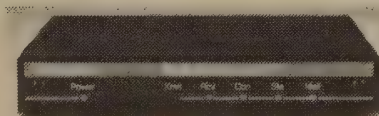
Kantronics KAM PLUS



**Simultaneous HF & VHF Packet
 Or Any Mode HF & Packet VHF**
 CW • RTTY • WeFAX • PACTOR
 AMTOR • NAVTEX • ASCII • G-TOR
 Personal Mailbox With Mail Waiting LED
 Tuning Indicator For Easy Operation
 HF & VHF Radio Cables Included
 Requires Radio Plugs
 RS232 25 Pin Cable Included
 AC Power Supply Optional
 One Year Limited Warranty
 6"W x 9"D x 1 3/4"H

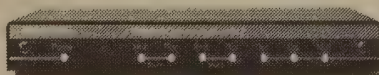
Free Software!

Kantronics KPC3



Packet Communicator 3
 Low Power High Performance
 Personal Mailbox With Mail Waiting LED
 One Radio Cable - Radio Plug Required
 Requires Computer Cable
 Operates On Optional 9V Battery
 Optional AC Power Supply
 One Year Limited Warranty
 5.2"W x 5.2"D x 0.8"H

Kantronics KPC-9612

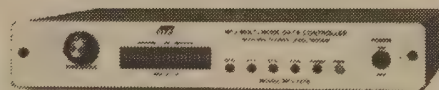


**9600 & 1200 Baud
 At The Same Time
 Dual Port**

Low Power High Performance
 Personal Mailbox With Mail Waiting LED
 Two Radio Cables - Radio Plugs Required
 Requires Computer Cable
 Operates On Optional 9V Battery
 Power Requirements 45 mA 6-25 VDC
 One Year Limited Warranty
 6.2"W x 6.1"D x 0.8"H

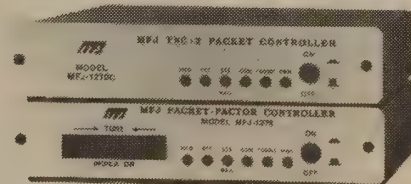
MFJ

MFJ 1278B



**Packet • AMTOR • RTTY • ASCII • CW • FAX
 SSTV • PACTOR**
 Navtex and Contest Memory Keyer
 20 LED Precision Tuning Indicator
 Easy Mail™ Personal Mail Box
 16 Gray Level FAX/SSTV
 Automatic Signal Analysis For
 HF Packet, RTTY, ASCII & AMTOR
 Built-in Printer Port
 AC Power Supply Included
 Two Radio Cables Included
 Radio Plugs Required
 Requires Computer Cable
 One Year MFJ No Matter What Guarantee
 9 1/2" x 9 1/2" x 1 1/2"

MFJ 1270C • 1276



MFJ TNCs For VHF/HF Packet
 WeFAX Mode With Starter Pack
 Easy Mail™ Personal Mail Box
 Radio Cable Included
 Radio Plug Required
 Computer Cable Required
 AC Power Supply Included
 One Year MFJ No Matter What Guarantee
 9 1/2" x 7 1/2" x 1 1/2"

MFJ 1276
 All the features of the MFJ-1270C plus
 PACTOR, precision tuning indicator and
 extra 32K mailbox memory.



**MFJ 1272B
 TNC/Mic Switch**

**See
 Price List
 For
 Software
 and Cables!**

R-7000

- Expandable to 80M with R-80 kit
- Reliable
- New Trap Design
- Easy Installation
- Auto Band Change
- Slim Silhouette

28, 24, 21, 18, 14, 10, 7 MHz
Gain, dBi - 3
Electrical Half-wave on All Bands
Power Rating - 1500 Watts PEP
Height - 24 Ft
Mast Size - 1.75-2.12"
Weight - 18 lb
Wind Load, Sq. Ft. - 2.2
Automatic Frequency Selection
Seven 49" Radials Included

R-5

28, 24, 21, 18, 14 MHz
Gain, dBi - 3
Height - 17 Ft
Mast Size - 1.5-1.75"
Automatic Frequency Selection
Four 49" Radials Included

AP-8A

3.5, 7, 10, 14, 18, 21, 24, 28 MHz
Operates as a 1/4 Wave All Bands
Power Rating - 2000 Watts PEP
Height - 26 Ft
Mast Size - 1.5-1.75"
Weight - 9.3 lb
Wind Load, Sq. Ft. - 1.7



CUSHCRAFT

AR-2 RINGO

135-160 MHz
Gain dB 3.75
2:1 Bandwidth 10 MHz
1000 Watts FM
Wind Load .21 Sq. Ft.
Height 3.9 Ft.
Weight - 1.5 lb
Mast Size, 1"-1.25"

ARX-2B RINGO RANGER II

135-160 MHz
Gain dB 7.0
2:1 Bandwidth 3 MHz
1000 Watts FM
Wind Load .5 Sq. Ft.
Height 14 Ft.
Weight - 6 lb
Mast Size, 1"-1.25"

AR-270 RINGO Dual Band

144-148 • 435-450 MHz
Gain dB 3.7/5.5
2:1 Bandwidth 4/15 MHz
250 Watts FM
Wind Load .27 Sq. Ft.
Height 3.75 Ft.
Weight - 2 lb
Mast Size, 1.25"-2"

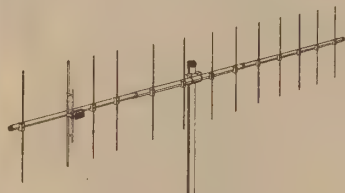
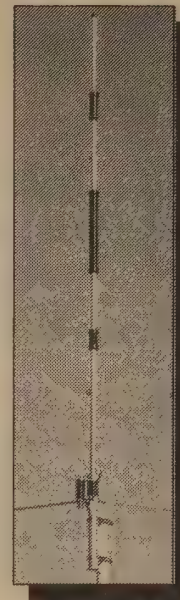
ARX-2B

AR-270B RINGO Dual Band

144-148 • 430-450 MHz
Gain dB 5.5/7.5
2:1 Bandwidth 4/15 MHz
250 Watts FM
Wind Load .27 Sq. Ft.
Height 7.7 Ft.
Weight - 2.4 lb
Mast Size, 1.25"-2"

ARX-270U RINGO Dual Band

144-148 • 430-450 MHz
Gain dB 9.0/12
2:1 Bandwidth 4/20 MHz
200 Watts FM
Wind Load .95 Sq. Ft.
Height 16.5 Ft.
Weight - 5 lb
Mast Size 1.25"-2"



13B2

13 Element Wideband

144-148 MHz • 13 Elements
Gain 15.8 dB • F/B 26 dB
2:1 Bandwidth 4 MHz • 2000 Watts PEP
Wind Load 1.8 Sq. Ft • Boom 15 Ft.
Weight - 6.7 lb



A148-10S • 2 Meters • 10 Element

144-148 MHz • 10 Elements
Gain 13.2 dBd • F/B 25 dB
2:1 Bandwidth 4 MHz • 1000 Watts PEP
Wind Load 1.21 Sq. Ft • Boom 12 Ft.
Weight - 6 lb • Mast Size Range 1.25"-2"

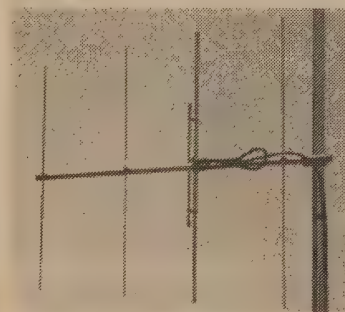
A148-3S • 2 Meters • 3 Element

144-148 MHz • 3 Elements
Gain 7.8 dBd • F/B 25 dB
2:1 Bandwidth 5 MHz • 1000 Watts PEP
Wind Load .27 Sq. Ft • Boom 2.8 Ft.
Weight - 1.5 lb • Mast Size Range 1.25"-2"



TEN-3 • 10 Meters 3 Element Beam

28 to 29.7 MHz
Gain 8 dBd • F/B 25 dB
2:1 Bandwidth 1.5 MHz • 2000 Watts PEP
Wind Load 2 Sq. Ft. • Boom 8 Ft.
Weight - 9.9 lb



124WB

4 Element Wideband

144-148 MHz • 4 Elements
Gain 10.2 dBd • F/B 24 dB
2:1 Bandwidth 4 MHz • 2000 Watts PEP
Wind Load .34 Sq. Ft • Boom 3 Ft.
Weight - 3 lb

A50-3S • 6 Meters 3 Element Beam

50-54 MHz
Gain 8 dBd • F/B 20 dB
2:1 Bandwidth 1 MHz • 1000 Watts PEP
Wind Load 1.8 Sq. Ft. • Boom 6 Ft.
Weight - 7 lb

A50-5S • 6 Meters 5 Element Beam

50-54 MHz
Gain 10.5 dBd • F/B 24 dB
2:1 Bandwidth 1 MHz • 1000 Watts PEP
Wind Load 2.9 Sq. Ft. • Boom 12 Ft.
Weight - 11 lb

A3S

3 Element Beam 14, 21, 28 MHz

Gain 8 dB • F/B 25 dB
2:1 Bandwidth 500 KHz • 2000 Watts PEP
Wind Load 4.36 Sq. Ft. • Boom 14 Ft.
Weight - 27 lb

A3WS

3 Element Beam 18, 24 MHz

Gain 8 dBd • F/B 25 dB
2:1 Bandwidth 300 KHz • 2000 Watts PEP
Wind Load 4.1 Sq. Ft. • Boom 14 Ft.
Weight - 22.5 lb

NMO - The Way To Go!

LARSEN

New Open Coil Design!

Dual-Band 2M/70CM

Mag Mount - Round

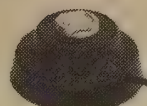
NMO-MM-R, NMO-2/70BCO, W-2/70BLK

Hole Mount w/Coax

NMO-K, NMO-2/70BCO, W-2/70BLK

Trunk Lid Mount

NMO-TLM, NMO-2/70BCO, W-2/70BLK



NMO-MM-R
12' Coax & PL259

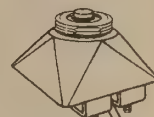


NMO-150-BCO

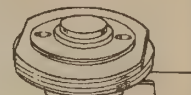


NMO-2/70-BCO

Model	NMO270	NMO150	NMO440
Bandwidth	144-148 MHz 442-448 MHz	144-148 MHz	440-450 MHz
Gain	2.4/4 dBd	3 dBd	5 dBd
Elec Type	5/8 wave VHF Collinear UHF	5/8 Wave	Collinear
VSWR	1.5 to 1	1.5 to 1	1.5 to 1
Power(Watts)	200	200	200
Antenna Height	33"	47 1/2"	32"
Impedance	50	50	50



NMO-TLM-Bik
w/17' Coax
PL259 Unattached



NMO-K
w/17' Coax
PL259 Unattached

2M 5/8 WAVE

Mag Mount - Round

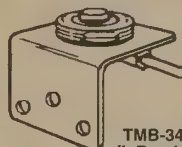
NMO-MM-R, NMO-150-BCO, W-490

Hole Mount w/Coax

NMO-K, NMO-150-BCO, W-490

Trunk Lid Mount

NMO-TLM, NMO-150-BCO, W-490



TMB-34B
(L Bracket)
Shown With
NMO-K
Installed

KG Series

Patented on-glass antenna design featuring exclusive low impedance power transfer.

Model	KG270PL	KG144PL	KG440N
Bandwidth	144-148 MHz 440-450 MHz	144-148 MHz	440-460 MHz
Gain	2.4/4.5 dBd	2.4 dBd	2.4 dBd
Elec Type	1/2 wave VHF Collinear UHF	1/2 Wave	1/2 Wave
VSWR	1.5 to 1	1.5 to 1	1.5 to 1
Power(Watts)	50	50	50
Antenna Height	30 1/4"	45"	11 3/4"
Impedance	50	50	50

14 ft. Dual Shield Low-Loss Cable. PL-259 connector shipped loose.



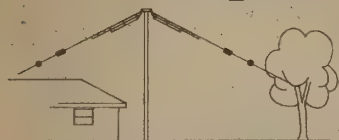
KG-270



KG-144

**See Larsen
In Price List
For
Current Specials!**

Alpha Delta



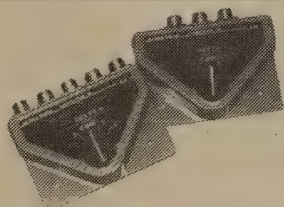
Model DX-CC • 82'
80-40-20-15-10 Meter

Model DX-DD • 82'
80-40 Meter

**RF Coax Switches with
Lightning Protection!**

DELTA-2 • DELTA-4

UHF Connectors • 500 MHz



**Lightning
Protection!**

**Transi-Trap
Surge Protectors**

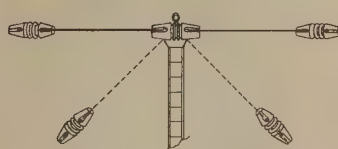
A proven record of effective lightning, EMP and static protection for your valuable communications equipment.

Model R-T
200 Watt thru 500 MHz

Model LT
200 Watt thru 30 MHz



VAN GORDEN ANTENNAS



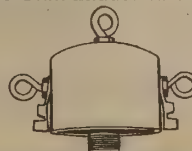
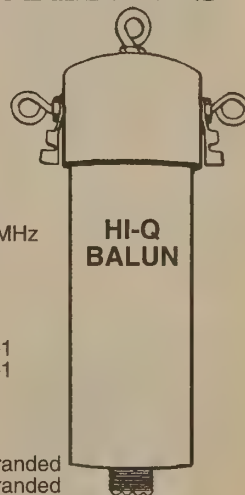
ALLBAN 160-10M Dipole 135
Tuner Required
G5RV Multiband Ant 102' 3.5-30 MHz
Except 10 MHz
PD-4010 40-10M Fan Dipole Kit
PD-8010 80-10M Fan Dipole Kit

HIQBAL1:1 HI-Q Balun 3-40 MHz 1-to-1
HIQBAL4:1 HI-Q Balun 3-40 MHz 4-to-1
HIQANT HI-Q Center Insulator
HIQINS End Insulator

75COP 75' Copper Wire 7X22 Stranded
150COP 150' Copper Wire 7X22 Stranded

Ladder Line

450OHM 450 Ohm Ladder Line 100' Roll Vinyl Cover

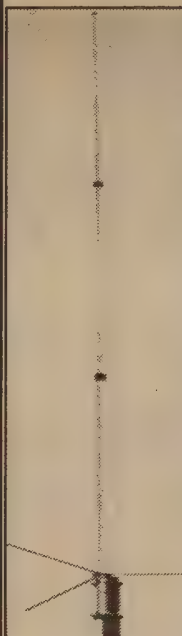


COMET

DUAL-BAND Base Antennas

- Base
- Mobile
- HT Antennas

**See Price List For
More COMET Products!**



GP-9

Gain & Wave:

146 MHz 8.5 dB 5/8 Wave x 3

446 MHz 11.9 dB 5/8 Wave x 8

Impedance: 50 ohms **VSWR:** 1.5:1 or less

Max Power: 200 Watts

Length: 17' 8" **Weight:** 5 lbs. 11 ozs.

Mounts to Mast Size: 1 1/4-2 1/2"

Connector: UHF

GP-3

Dual-Band 146/446 MHz

Base-Repeater Antenna

Gain:

146 MHz 4.5 dB

446 MHz 7.2 dB

Impedance: 50 ohms **VSWR:** 1.5:1 or less

Max Power: 200 Watts

Length: 5' 11" **Weight:** 2 lbs. 12 ozs.

Connector: UHF

GP-6

Dual-Band 146/446 MHz

Base-Repeater Antenna

Gain & Wave:

146 MHz 6.5 dBi 5/8 Wave x 2

446 MHz 9.0 dBi 5/8 Wave x 5

Impedance: 50 ohms **VSWR:** 1.5:1 or less

Max Power: 200 Watts

Length: 10' 2"

Connector: UHF

New Mobile Antennas!

SBB-5/SBB-5NMO

Dual-Band 146/446 MHz

Mobile Antenna-Black

Gain & Wave:

146 MHz 3.0 dBi 1/2 Wave

446 MHz 5.5 dBi 5/8 Wave x 2

Impedance: 50 ohms

VSWR: 1.5:1 or less

Max Power: 120W FM

Length: 38"

Connector: UHF Or NMO



SBB-25/SBB-25NMO

Mono-Band 146MHz-Black

No Ground Plane Required

Gain & Wave:

146 MHz 4.1 dBi 5/8 wave

Impedance: 50 ohms

VSWR: 1.5:1 or less

Max Power: 100W FM

Length: 4' 9"

Connector: UHF Or NMO

SB-14

Tri-Band 52/146/446MHz

Gain & Wave:

52 MHz 0.0 dBi

146 MHz 3.5 dBi

446 MHz 6.0 dBi

Impedance: 50 ohms

VSWR: 1.5:1 or less

Max Power: 120W FM

Length: 43"

Connector: UHF

SBB-7/SBB-7NMO

Dual-Band 146/446 MHz

Mobile Antenna-Black

Gain & Wave:

146 MHz 4.5 dBi 6/8 Wave

446 MHz 7.2 dBi 5/8 Wave x 3

Impedance: 50 ohms

VSWR: 1.5:1 or less

Max Power: 70W FM

Length: 4' 7"

Connector: UHF Or NMO



B-10/B-10NMO Black

Dual-Band 146/446 MHz

Open coil cellular look.

Gain & Wave:

146 MHz -- dB 1/4 Wave

446 MHz 2.15 dB 1/2 Wave

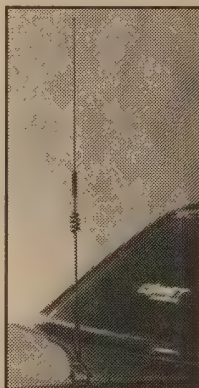
Impedance: 50 ohms

VSWR: 1.5:1 or less

Max Power: 50 Watts

Length: 12"

Connector: UHF or NMO



B-20/B-20NMO Black

Dual-Band 146/446 MHz

Open coil cellular look.

Gain & Wave:

146 MHz 2.15 dB 1/2 Wave

446 MHz 5.0 dB 5/8 Wave x 2

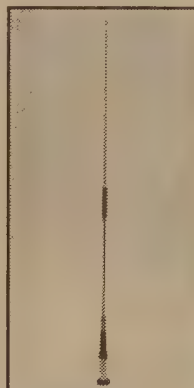
Impedance: 50 ohms

VSWR: 1.5:1 or less

Max Power: 50 Watts

Length: 30"

Connector: UHF or NMO



CX-224NMO

Tri-Band Mobile Antenna

146/220/446 MHz

Gain & Wave:

146 MHz 2.15 dB 1/2 Wave

220 MHz 3.6 dB 5/8 Wave

446 MHz 6.0 dB 5/8 Wave x 2

Impedance: 50 ohms

VSWR: 1.5:1 or less

Max Power: 100 Watts

Length: 36"

Connector: NMO



**See Price List For
More COMET Products!**

CHL-28J/CHL-28JNMO

Dual-Band 146/446 MHz

Mobile Antenna

Gain & Wave:

146 MHz 3.0 dBi 1/2 Wave

446 MHz 5.5 dBi 5/8 Wave x 2

Impedance: 50 ohms

VSWR: 1.5:1 or less

Max Power: 60W FM

Length: 36"

Connector: UHF Or NMO



CF-4160K DUPLEXER

146/446 MHz

Band Pass, Ins. Loss, Max Pwr:

1.3-150 MHz, 0.5 dB, 800W PEP

400-540 MHz 0.5 dB, 500W PEP

Isolation: 60 dB

Connectors: (No Coax)

Output: SO-239

Low In: PL-259 • **Hi In:** PL-259



RS-820



RS-850

MOUNTS

Requires A Coax Assembly

RS9 Trunk Lip Mount

RS-80 Gutter Mount

RS-21 Hatch/Trunk Lip Mount Adjustable

Fits Virtually Every Trunk/Hatch Back etc.

RS-820 Heavy-duty Low Profile Trunk Lip/Hatch Back

Mount. Rubber Coated Base Protects Paint

RS-850 Clamp Mount

MAG MOUNTS

MS3FVMM Hvy Duty w/4 Mtr 3.5D Coax UHF/UHF

MS5LXMM Hvy Duty w/4 Mtr 5D Coax UHF/UHF

COAX ASSEMBLIES FOR MOUNTS

Listed in Price List

HUSTLER

HF Mobile

- Masts MO-2 & MO-3 54"
- Standard Resonators 400W PEP
- Super Resonators Legal Limit
- Resonator Springs
- Quick Disconnect
- Bumper Mount
- Ball Mount
- *See Price List for Details*

HF Mobile Resonators

- **Standard Resonators**
- Power rating 400 watts SSB
- **Super Resonators**
- Power rating full legal limit
- Wider bandwidth especially on 40, 75 and 80 meters

See Price List

Stainless Steel Mounts

- Exceptional performance and quality
- 180° adjustable reinforced stainless ball
- Professional quality Cycolac bases for greatest mechanical stability
- Exclusive "C" backup plate allows external installation
- Supplied with all mounting hardware
- For Hustler and other 3/8" x 24 threads

SSM-2 Ball Mount
SSM-3 Stainless Steel Spring
 with Coupling Stud

FX-2 Two Meter

- 3.4 db Gain • 5/8 Wave
- 200 Watt rating
- 15' Coax with PL-259 Installed
- Mag Mount Hold to 100 MPH



FX-2

RX-2 Two Meter

- 3.4 db Gain • 5/8 Wave
- 100 Watt rating
- 15' Coax with PL-259 Installed
- Mag Mount Hold to 75 MPH



RX-2

Model QD-2 Quick Disconnect

- Designed to prevent ice or dirt "freeze up"
- Machined to close tolerances
- Made of 100% stainless steel
- Convenient press-twist release
- 3/8" x 24 thread



Model RSS-2 Resonator Spring

- For HF Mobile Antennas (between resonator and mast)
- Braided center pigtail to prevent detuning even at highway speeds
- Standard 3/8" threads



Model RMX-B 10M Mobile Antenna

- 2:1 VSWR - 250 to 400 KHz
- 1000 watt capacity
- Only 46 inches tall
- Requires 3/8" x 24 mount



Model BM-1 Bumper Mount

- Heavy-duty stainless steel strap fits bumpers to 18" vertical height
- Secured by two heavy "J" bolts
- 180° adjustable ball
- Standard 3/8" threads
- All hardware included



Model UGM Magnetic Antenna

- BNC connector and 7' mini-coax
- Convenient for handhelds
- 140-500 MHz unity gain when cut to proper length
- Extends the range of handhelds

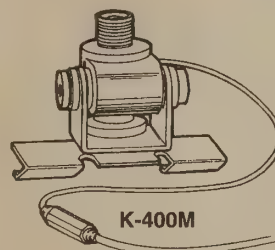
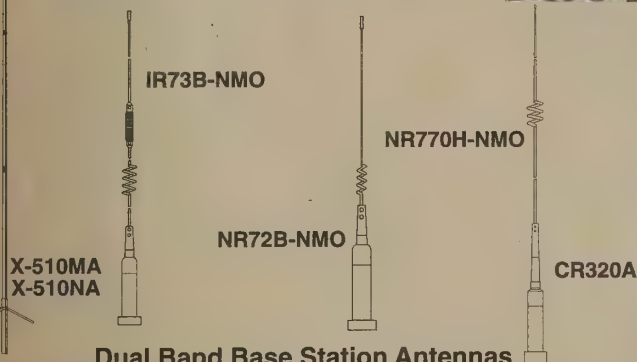


See Price List For Other Hustler Products!

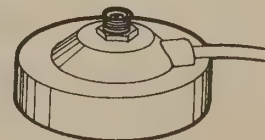
- Base Antennas
- Mobile Antennas

DIAMOND ANTENNA

- Antenna Mounts
- Coax Assemblies



K-400M



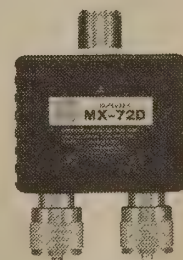
DPSPM5D

Dual Band Base Station Antennas

	X-50A	X-200A	X-510MA X-510NA
Frequency	2M/70CM	2M/70CM	2M/70CM
Gain	4.5 dB 2M 7.2 dB 70CM	6.0 dB 2M 8.0 dB 70CM	8.3 dB 2M 11.7 dB 70CM
Power Rating	200W	200W	200W
Impedance	50 ohms	50 ohms	50 ohms
VSWR	Less than 1.5:1	Less than 1.5:1	Less than 1.5:1
Length	5.6'	8.2'	17.1'
Connector	UHF	UHF	UHF or N
Mast Size	1 1/5" to 2 2/5"	1 1/5" to 2 2/5"	1 1/5" to 2 2/5"
Weight	2.0 lbs.	2.6 lbs.	5.3 lbs.

Dual Band TriBand Mobile Antennas

NR73B-NMO	NR72B-NMO	NR-770HA NR-770HNMO
2M/70CM	2M/70CM	2M/70CM
2.15 dBi 2M 5.5 dB 70CM	2.15 dBi 2M 2.15 dBi 70CM	3.0 dB 2M 5.5 dB 70CM
100W	100W	200W
50 ohms	50 ohms	50 ohms
Less than 1.5:1	Less than 1.5:1	Less than 1.5:1
34"	14"	41"
NMO	NMO	UHF or NMO



MX-72D

MX-72D
 2M/70CM Duplexer
 140-150MHz:150W(CW)
 400-460MHz:100W(CW)
 Insertion Loss:Less than .25dB
 Input isolation:More than 60 dB
 Output:SO-239*Input PL-259

DIAMOND ANTENNA

COAX CABLE



Loss Per 100'(MHz)	50	100	200	400	Vel%
C1108 RG-8X	2.8	4.0	5.3	9.0	78
C1176 RG-213	1.35	2.1	3.1	5.0	66
C1180 RG8 Low Loss	0.9	1.4	1.8	2.6	84
C1198 RG-8 Foam	1.2	1.8	2.6	3.8	78

Shield Coverage

C1108, C1198, C1176 - 95% Bare Copper Braid
C1180 - 100% Bonded Foil + 88% Tin Copper Braid

Coax Jumper Cables



See
Price
List!

*Two PL-259s
Installed!*

*Soldered Shield
And Center
Conductor!*

RG-8 • RG8X Mini 8

3 Ft • 6 Ft • 12 Ft

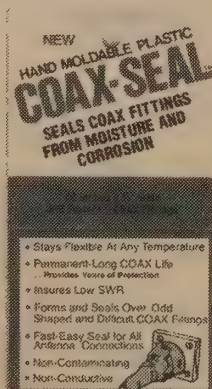
18 Ft • 25 Ft

50 Ft • 100 Ft

See price list for complete listing!

COAX-SEAL™

See Universal In Price List



A new space age plastic which will quickly and effectively seal all types of coax fittings of all shapes. COAX-SEAL stays flexible for years thus insuring moisture proof connections. Insures good SWR and long coax life. COAX-SEAL will allow you to quickly disconnect fittings and reseal them with same material by reforming plastic.

MFJ HT Range Extenders

Telescoping antennas for handhelds

MFJ-1714 2M Halfwave

For really long range this MFJ endfed halfwave is hard to beat. No ground plane needed. When collapsed (10 1/2") it performs like a rubber duck. 40" extended.

MFJ-1712 2M/440 MHz Dual Bander

It's a 1/4 wave for 2M and a 5/8 wave with gain for 440 MHz. 7 1/4" collapsed, 19" extended.

MFJ-1710 2M 3/8 Wave

Carry this pen size antenna in your pocket like a ballpoint pen and use in the fringe and noisy area. 5 1/4" collapsed 24 1/2" extended. With pocket clip.



MFJ-1717 High Gain Dual Band 144/440 MHz "Flexible" Duck Antenna

You'll enjoy dependable QSOs with MFJ-1717. Only 15 3/4 inches in length, it's a halfwave on 440 MHz and an efficient full size 1/4 wave on 2 meters. The radiator is protected by a durable synthetic rubber compound and has a hard protective safety tip.

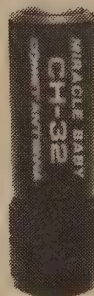
MFJ-1716

Similar to MFJ-1717. 8 3/4 inch length. 1/4 wave on 440 and efficient loaded 1/4 wave on 2 meters.

MFJ-1718

Add this strong, flexible "Shorty" 4 1/4 inch rubber duck to your 2 meters handheld and enjoy outstanding signals.

See MFJ In Price List!



CH-32 Miracle Baby
Hand-held Dual Band
2M/70 cm
Max. Power 10 watts

*High
Performance
Dual Band
Antennas*

DIAMOND RH-77CA

2M/70 cm
Dual Band Antenna
15" • 50 Watt • BNC
Flexible

COMET SH-55

2M/70 cm
15" • 10 Watt • BNC
Flexible

Only 1.75" Length



Larsen KulDuckie HT Antennas

HQ HELICAL 1/4 WAVE

VHF applications requiring peak performance in the 144-148 MHz while tolerating a length slightly longer than helical types.

KD4-146-HQ Blue Tip

All 2M HTs • 10" Approx. • BNC

2/70 DUAL BAND

Superb performance. Operates as a full 1/4 wave at 440 MHz and a loaded 1/4 wave at 144-148 MHz

KD4-270

All Dual Band HTs • 7 1/2" Approx • BNC





MFJ ANTENNAS

See Price List For MFJ Products

Super Hi-Q Loop Antenna

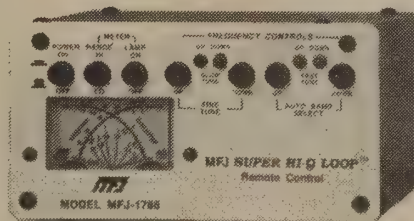
MFJ-1786

... 36 inch diameter -- it's the smallest, high efficiency 10-30 MHz continuous coverage antenna ever made for ham radio ...

- Automatic Band Selection, SWR/Wattmeter
- Round conductor more efficient than flat strip
- Welded butterfly capacitor, no rotating contacts
- All welded construction
- No control cable needed

**Super Remote Control
makes MFJ's
Super HiQ Loop
extra easy-to-tune**

Dual fast & slow tune buttons
Built-in SWR/Wattmeter
Cross-Needle
No control cable needed



Included With 1786

MFJ halfwave vertical Antenna MFJ-1796



MFJ-1796

6 bands: 40, 20, 15, 10, 6, 2 Meters No radials or ground needed!

Operate 40, 20, 15, 10, 6, 2 meters with this MFJ-1796 ground independent halfwave vertical antenna--no radials or ground ever needed! It's only 12 feet high and has a tiny 24 inch footprint.

You can mount it anywhere from ground level to the top of a tower--on apartments, condos, small lots, even on a motorhome.

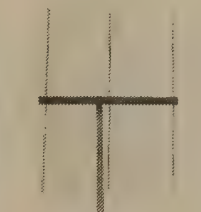
You can take it anywhere--vacations, field day, DX-expedition, camping, nearly anywhere you go.

Frequency selection is fully automatic--there are no moving parts, nothing to adjust--all you do is transmit. It handles up to 1500 watts PEP. No radials or ground ever needed!

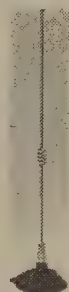


**MFJ-1750
2 Meter**

5/8 Wave Ground Plane
Easy U-bolt (included)
Installation to any 1" to
1 1/2" Mast



**MFJ-1763
Portable 3 Element
For 2 Meters
Boom - 30 1/2"
Wt - 2 lbs.**



**MFJ-1724B
144 And 440 MHz
Mag Mount 19"
15 ft. coax w/PL-259**



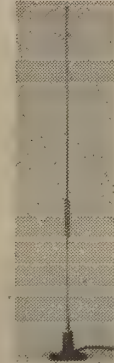
**MFJ-1728
5/8 Wave
2M Mag Mount
12 ft. coax with PL-259**



**MFJ-1740
2M 1/4 Wave**



**MFJ-1730
Pocket Roll-Up
2 Meter Halfwave**



**MFJ-1729
Super Gain™
144/440 MHz
2.6/6.3 dB
Mag Mount 29 3/4"
12 ft. coax w/PL-259
Free BNC adapter**



MFJ-1798

Full sized performance ...

No ground or radials

Operates 10 bands:

75/80, 40, 30, 20, 17, 15, 12,
10, 6 and 2 meters

- Operates 10 bands
- Full size performance
- Separate full size radiators
- End loading - most efficient
- MFJ Elevated Top Feed
- Low angle of radiation
- Built to last & easy to tune
- No feedline radiation
- Self supporting and 20 ft. tall

OUTbacker

All Bands Including WARC Bands
In One Neat Built-To-Last Antenna

- One Antenna Does It All
- Low SWR • Wide Bandwidth
- Built To Last
- Sheer Mobiling Enjoyment

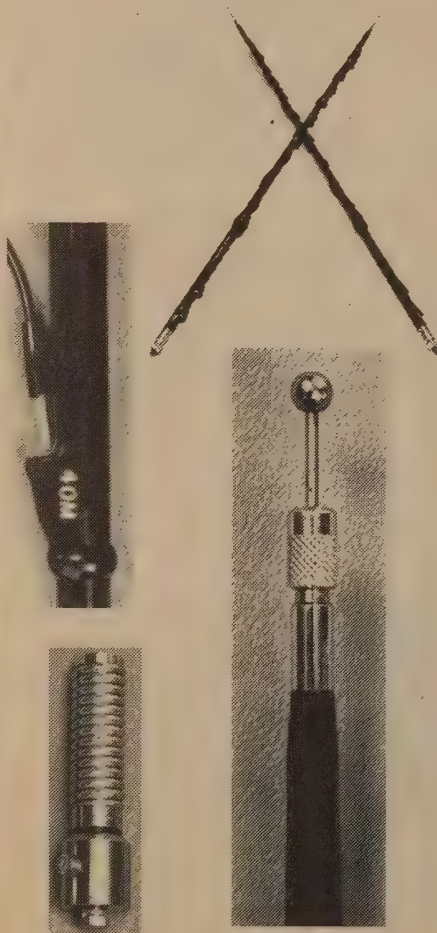
It's plug-n-play, mate!

OUTBACKER

*links your rig
to the world.*

OUTBACKER Perth

7.5 ft. tall
80-10m plus WARC's
150 watt PEP • 3/8-24 thread
Perfect for trunk mounting
Low wind resistance
Superb performance



DX A-Plenty • Low SWR

TIMEWAVE

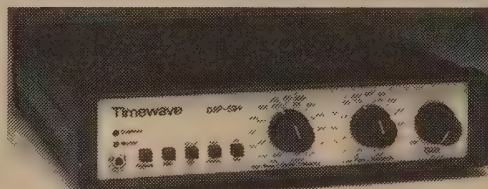
TECHNOLOGY INC.

A Quantum Leap Ahead! TIMEWAVE DSP-599zx New All-mode DSP Noise Filter Nothing Else Even Compares.

The DSP-599zx combines **hyperspeed DSP processor** with an alphanumeric display, **quick-select** pushbuttons and **optical encoders** to wipe out noise and QRM like never before! Heterodynes disappear like magic; weak signals pop up from the noise, and the razor-sharp filters slice away QRM. The **DSP RTTY remodulator** pulls out solid copy when you can barely hear a signal. **Continuous filter tuning to 5.4 kHz** opens up the wider bandwidth modes like shortwave AM broadcast and VHF/UHF and sophisticated data modes. The DSP-599zx unique design is **field upgradeable**.

- Enhances voice, data and CW
- Remodulates RTTY
- Wideband for AM and FM
- Continuous Coverage
- Two selectable inputs
- Hyperspeed DSP - 27 ns. fast!
- LCD alphanumeric display
- Front panel programming
- Visible Memories - instant recall
- 80 KB RAM on the DSP chip

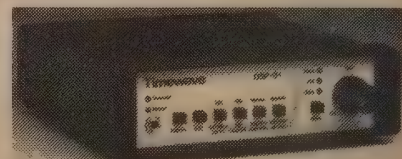
The TW DSP-9+ and DSP-59+ improve reception by simultaneously reducing random noise up to 20 dB and heterodynes up to 50dB. TW DSP filters feature third generation 16 bit processing, providing razor sharp audio for SSB, CW and Data modes. Both have AGC for wider dynamic range and signal boosting/peaking, relay bypass and self test modes. A station requirement for weak signal, noisy band operation during the **LOW SUN SPOT CYCLE!**



DSP-59+ Multi-Mode Filter

Now hundreds of CW and Bandpass filters allow the operator to select almost any filter combination. The easy turning filter knobs allow continuous coverage. Includes all data filters in the DSP-9+ plus G-TOR, SSTV, EME, and WEFAX. Voice filters cover 200Hz to 3.4 kHz. 13 CW center frequencies, CW bandwidths from 25Hz to 600Hz and a CW marker to spot the center of narrow filters.

DSP-9+ Multi-Mode Filter



Push button selectable bandpass and automatic notch filters. SSB filters 1.6, 2.0, 2.4kHz, CW 100, 200 and 500 Hz. Programmable CW center frequencies 400/500/600/800Hz. HF data filters, PACTOR, G-TOR, AMTOR, AM and RTTY with programmable center frequencies for North America and Europe.

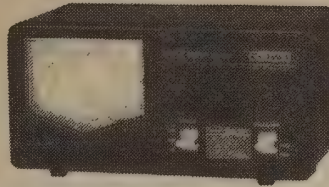
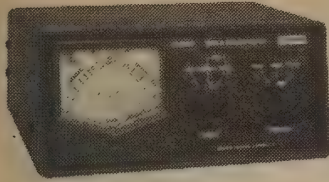


DSP-9 Multi-Mode Filter

Designed for the ham who wants CW and SSB, the easy-to-operate TW DSP-9 features selectable switching among 1.8, 2.4 and 3.1 kHz SSB filters, and between 100, 200 and 500 Hz CW filters.

DAIWA

SWR Power Meters



MODEL	NS-660PA*	NS-663BM
Frequency	1.8-150 MHz	140-525 MHz
Forward Power	30/300/3 KW	30/300 W
Tolerance	±10% at full scale	
SWR Sensitivity	8 W	.8 W
Impedance	50 Ω	
Connectors	UHF	
Dimensions	184W x 95H x 152D mm	

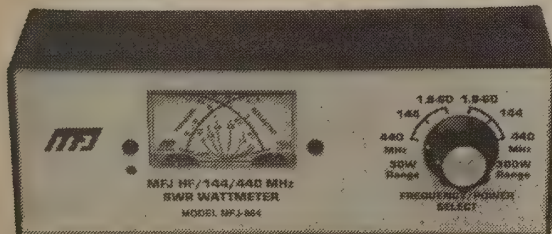
*Peak Reading ±1.5% at full scale

MODEL	CN-101	CN-103
Frequency	1.8-150 MHz	140-525 MHz
Forward Power	15/150/1.5 KW	20/200 W
Tolerance	±10% of full scale	
SWR Sensitivity	4W	
Impedance	50 Ω	
Connectors	UHF	
Dimensions	155W x 80H x 100 mm	

MODEL	CN-410M	CN-460M
Frequency	3.5-150 MHz	140-450 MHz
Forward Power	15/150 W	15/150 w
Tolerance	Better than ±15%	
SWR Sensitivity	3W	
Impedance	50 Ω	
Connectors	UHF	
Dimensions	71W x 78H x 100D mm	

MFJ-864 HF/VHF/UHF

1.8-60 MHz, 144 MHz, 440 MHz



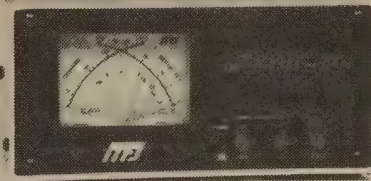
This new MFJ Cross-Needle SWR/Wattmeter cover HF thru HF -- 1.8 to 60 MHz, 144 MHz, 440 MHz bands. You can read forward and reflected power and SWR simultaneously at a single glance.

It features separate HF and VHF/UHF directional couplers, each with its own set of SO-239 coax connectors.

Power ranges -- 30/300 watts forward and 6/60 watts reflected. Each power range for each band is individually calibrated.

7 1/4 x 2 1/2 x 2 1/4 inches

MFJ SWR/Power Meters



MFJ 815B

1.8-30 MHz SWR/Wattmeter

1.8-30 MHz • 2000 Watt

Cross Needle Meter • Peak or Average

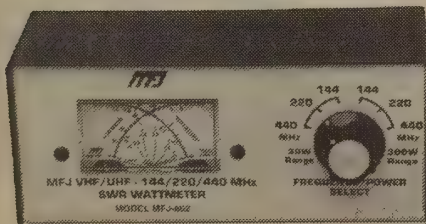
2000/200 Forward • 500/50 Reflected

7 1/4"W X 4 1/2"H X 3 1/2"D

MFJ 817

144/440 MHz SWR/Wattmeter

MFJ-862 144/220/440 MHz



Similar to MFJ-864 but covers 144 MHz, 220 MHz and 440 MHz. 30/300 watts forward, 6/60 watts reflected ranges.

5 3/4 x 2 1/2 x 2 1/4 inches

MFJ 812B 144/220 MHz VHF SWR/Wattmeter

144-220 MHz • 300 Watt
300/30 Forward and Reflected
4 1/2"W X 2 1/4"H X 3"D

MFJ 816 1.8-30 MHz SWR/Wattmeter

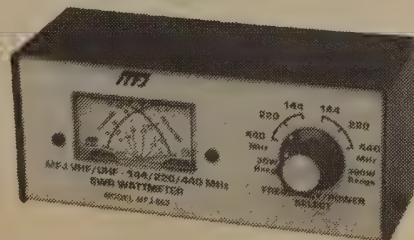
1.8-30 MHz • 300 Watt
300/30 Forward and Reflected
4 1/2"W X 2 1/4"H X 3"D

See price list
for complete listing
of MFJ products!

MFJ-860 1.8 to 60 MHz

Similar to MFJ-862 but covers 1.8-60 MHz.. 30/300 watts forward, 6/60 watts reflected ranges.

4 1/2 x 2 1/4 x 3 inches



YAESU YS-500 SWR/Power Meter

140-525 MHz • 4W/20W/200W

Average And Peak Power

SO-239 Connectors

4 3/4W x 2 3/4H x 3 1/2D in.

See price list or call for
complete listing of MFJ products!

MFJ

Order Now!

Deluxe 300 Watt Tuner with Built-In Dummy Load



MFJ 949E

1.8 to 30 MHz • Cross Needle Meter
4:1 Balun for Balanced Lines
Peak Or Average Reading Meter
Direct or Thru Tuner
Built-in 300 Watt Dummy Load
Coax Switch Selects 2 Coax Lines
10"W X 3"H X 7"D

Super Value Versa Tuner II



MFJ 941E

1.8 to 30 MHz • Cross Needle Meter
300/50 and 30/5 Watt Ranges
Lighted Meter Requires 12 Volts
4:1 Balun for Balanced Lines
Coax Switch Selects 2 Coax Lines
Direct or Thru Tuner
10 5/8"W X 2 7/8"H X 7"D

MFJ Compact Random Wire Tuner



MFJ 16010

Operates all bands 1.8-30 MHz anywhere
with any transceiver using a random wire
and an antenna tuner small enough to
carry in your hip pocket.
Handles up to 200 watts output.
Has SO-239 connectors.
2"W X 3"H X 2"D

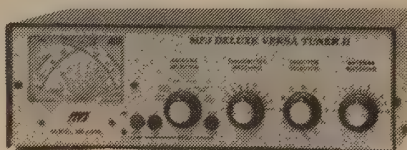
MFJ's Smallest Versa Tuner



MFJ 901B

1.8 to 30 MHz • 200 Watt PEP
4:1 Balun For Balanced Lines
Matches dipoles, vees, random wires,
verticals, mobile whips, beams,
balanced and coax lines.
5"W X 2 1/2"H X 6"D

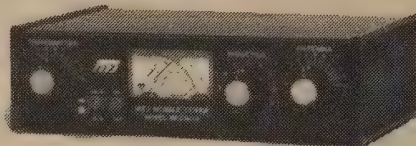
Deluxe 300 Watt Tuner



MFJ 948

1.8 to 30 MHz • Cross Needle Meter
4:1 Balun For Balanced Lines
Peak Or Average Reading Meter
Coax Switch Selects 2 Coax Lines
Direct or Thru Tuner
10"W X 3"H X 7"D

Compact Mobile HF Antenna Tuner



MFJ 945D

1.8 to 30 MHz • Cross Needle SWR Meter
Forward & Reflected Power
300/50 & 30/5 Watts
Lighted Meter Requires 12 Volts
8"W X 2"H X 6" D

MFJ 3 KW Roller Inductor Tuner



MFJ 986

1.8 to 30 MHz • Cross Needle Meter
Roller Inductor with Three Digit Counter
4:1 Current Balun For Balanced Lines
Peak Or Average Reading Meter
Direct or Thru Tuner
Coax Switch Selects 2 Coax Lines
10 1/4"W X 4 1/2"H X 15"D

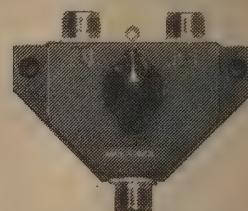
MFJ's world famous 3 KW Versa Tuner V



MFJ 989C

1.8 to 30 MHz • Cross Needle Meter
Roller Inductor with Three Digit Counter
Built-in 300 Watt Dummy Load
4:1 Current Balun For Balanced Lines
Peak Or Average Reading Meter
Coax Switch Selects 2 Coax Lines
Direct or Thru Tuner
Balanced or Random Wire
10 3/4"W X 4 1/3"H X 15"D

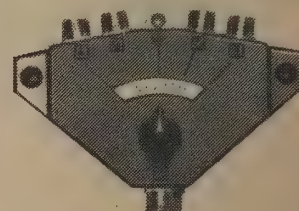
Heavy Duty Coax Switch



MFJ-1702B

Two Position Coax Switch
Center Ground Position
2.5 KW PEP • 1 KW CW
60 dB Isolation At 300 MHz
Less Than 0.2 dB Insertion Loss
SWR Below 1.2:1 • Mounting Holes
SO-239 Connectors • 3" x 2" x 2"

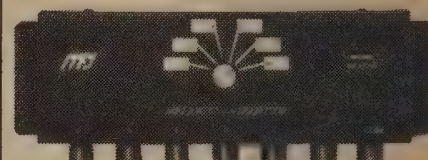
Heavy Duty Coax Switch With Surge Protection!



MFJ 1704

Four Position Coax Switch
Center Ground Position
Lightning Surge Protection Device
2.5 KW PEP • 1 KW CW
Extremely Low SWR
50 dB Isolation At 500 MHz
Negligible Insertion Loss • SO-239 Conn

HF Antenna Switch



MFJ 1701

Six Position Coax Switch
Unused Terminals Grounded
1.8-30MHz • 50-75 Ohm
2 KW PEP • 1 KW CW
SO-239 Connectors



MFJ W9INN Balun Box

MFJ 912

Let's you use coax from your antenna tuner
to the MFJ-912 mounted outside the
building. The MFJ-912 then converts the
unbalanced coax to the balanced
transmission line (ladder line).
Giant 2 core balun wound with teflon.
3 1/4 x 2 1/4 x 7 inches

See price list or call for
complete listing of MFJ products!

MFJ



MFJ-249
1.8-170 MHz

The MFJ-249 has all the features of MFJ-259 but less the RF resistance meter. Includes 1.8-170 MHz continuous coverage, 10 digit LCD frequency counter and smooth vernier tuning. It's fully portable.
4" x 2 1/2" x 6 3/4"



**10-digit LCD Frequency counter
SWR 1.8-170 MHz**

MFJ-259
1.8-170 MHz

The MFJ-259 gives you a complete picture of your antenna's performance anywhere between 1.8 and 170 MHz -- you can even check SWR outside of the ham bands without violating FCC rules. Set the bandswitch and tune the dial. SWR is displayed instantly!

Now you can measure RF resistance up to 500 ohms at minimum SWR--instantly--on MFJ's exclusive side-by-side RF resistance and SWR meters.

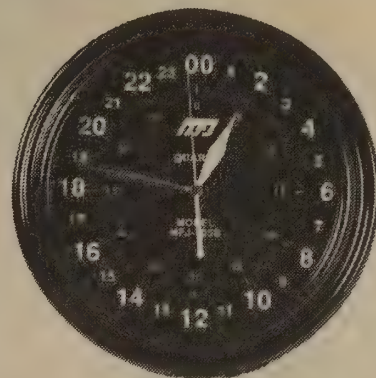
Take the guesswork out of building matching networks and baluns for your antennas.

Watch the effects of spacing on radiation resistance as you adjust your antenna.

4" x 2 1/2" x 6 3/4"

HF/VHF SWR Analyzers

MFJ 24 Hour Wall Clock



MFJ-105B

The MFJ-105B is a true 24 hour quartz wall clock. The huge 10 inch diameter face gives excellent visibility across a computer or radio room. A single "AA" battery (not included) provides over one year operation.

MFJ Multiple DC Power Outlets



MFJ-1118

The MFJ-1118 is MFJ's most versatile and highest current Deluxe Multiple DC Power Outlet. It lets you power two HF and/or VHF transceivers and six or more accessories from your transceiver's main 12 VDC power supply. Two pair of 30 amp 5-way binding post that handle a total of 35 amps. Six pairs of 5-way binding posts that handle a total of 15 amps. Six feet of eight gauge color coded wire. Built-in 0-25 VDC monitor meter and on-off switch
12 1/2" X 2 3/4" X 2 1/2"



MFJ-1116

MFJ-1116 Deluxe Multiple DC Power Outlet gives you 8 DC outlets for powering your accessories. Hooks to your rig's main 12VDC power supply. You can monitor DC Voltage on it's built-in voltmeter. Has power switch and 15 amp fuse.
12 1/2" X 2 3/4" X 2 1/2"

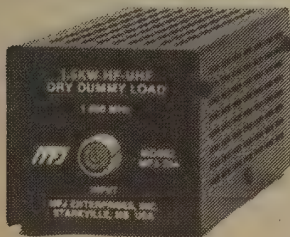


MFJ-1112

Like the MFJ-1116 but without ON/OFF switch, voltmeter and fuse.
It has 6 pair of outlets.
12 1/2" X 2 3/4" X 2 1/2"

UHF/VHF/HF Dummy Load MFJ-264

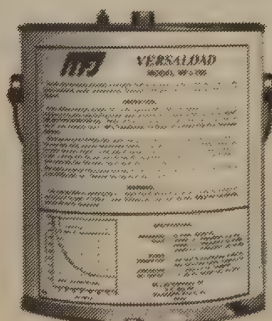
Versatile dummy load lets you tune up to 650 MHz and get extremely low SWR. You can run 100 watts continuously, 1500 watts for 10 seconds.
3"W X 3"H X 7"D



Dry 300W HF Dummy Load MFJ-260B

Air cooled, non-inductive resistor in perforated metal housing with SO-239 connectors. Full load for 30 seconds, derating curve to 5 minutes.
2 1/4"W X 2 1/4"H X 7"D

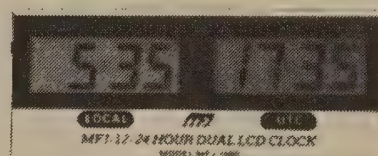
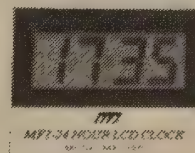
1 KW Dummy Load



MFJ-250

MFJ-250 dummy load lets you tune up fast! Run 1-KW or 2 KW PEP for 10 minutes. 1/2 KW CW or 1 KW PEP for 20 minutes. Continuous duty with 200 watts CW or 400 watts PEP. Transformer oil included. Ideal for testing HF and VHF rigs. SO-239 connector. Vented for safety. Carrying handle.
7 1/2" high by 6 5/8" diameter

MFJ 12/24 Hour Clocks



MFJ-107B • 108B

Read both UTC and local time at a glance with the MFJ-108B dual clock that displays 24 and 12 hour time or choose the MFJ-107B single clock that shows 24 hour UTC time. Brushed aluminum frame.

MFJ-701 RFI Free Choke Kit

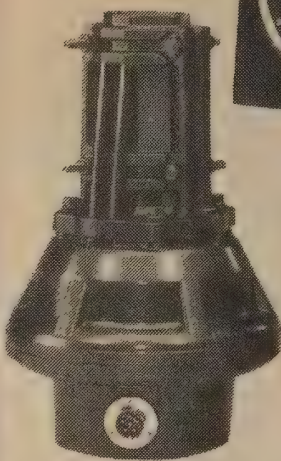


Package
of 4

Eliminates
RFI

MFJ-701

RFI-Free Choke Kit makes it easy to eliminate common RFI problems. You simply wind the offending cable around MFJ's RFI suppressing toroid to get rid of RFI. Each toroid separates into halves to make it easy to wind on all kinds of cable, including computer ribbon, TV coax, power cord, telephone wire, video/stereo cables.



YAESU ANTENNA ROTATORS

G-450XL

Light to medium duty.
Low price, perfect entry level rotator.

360° Rotation Time:	51 sec.
Rotation Torque:	39.8 ft-lbs
Stationary Torque:	217 ft-lbs
Max. Vertical Load:	242 lbs
Wind Load:	10.6 sq ft
Mast Diameter:	1 3/4 - 2 in
Max. Turn Radius x Wt.:	722 ft-lbs

G-800SDX

Medium-duty for medium/large HF arrays.
Includes variable speed and preset controls.

360° Rotation Time:	(S) 55 sec, (SDX) 43-93 sec
Rotation Torque:	43-79 ft-lbs
Stationary Torque:	288 ft-lbs
Max. Vertical Load:	1760 lbs
Wind Load:	21 sq ft
Mast Diameter:	1 1/2 - 2 1/2 in
Max. Turn Radius x Wt.:	1299 ft-lbs

*User selectable
North or South
center*

G-1000SDX

Medium/heavy-duty for large HF arrays.

360° Rotation Time:	43-93 sec
Rotation Torque:	43-79 ft-lbs
Stationary Torque:	433 ft-lbs
Max. Vertical Load:	1760 lbs
Wind Load:	23 sq ft
Mast Diameter:	1 1/2 - 2 1/2 in
Max. Turn Radius x Wt.:	2020 ft-lbs

*Yaesu
rotators to
turn your head!*

G-5400B

Azimuth-Elevation rotator combination.

180° El. Rotation Time:	58 sec	Max. Vertical Load:	440 lbs
360° Az. Rotation Time:	52 sec	Wind Load:	11 sq ft
El. Rotation Torque:	101 ft-lbs	Mast Diameter:	1 1/2 - 2 1/2 in
Az. Rotation Torque:	44 ft-lbs	Boom Diameter:	1 1/4 - 1 5/8 in
El. Stationary Torque:	289 ft-lbs	Pointing Accuracy:	+ or - 4%
Az. Stationary Torque:	145 ft-lbs		

BENCHER LOW PASS FILTER

YA-1



Specifications:

Working Range: 1.8 to 29.7 MHz
Impedance: 50 ohms
Power Rating: 1.5 kw cont.
5 kw peak
Attenuation: ≥80db @ 54 MHz

When dealing with television interference problems, installation of a good low pass filter is ALWAYS the first step the amateur should take. And often, a good quality low pass filter at the output of your transceiver is the only step needed to resolve your dilemma.

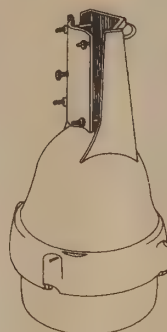
Take the first step towards becoming active again, even during prime time! Put a Bencher YA-1 in your transmission line, and enjoy the bands again!

Size
2 1/2(W) x 9 1/8(L) x 2 1/2(H)

TELEX/Hy-Gain Rotors

Ham-IV

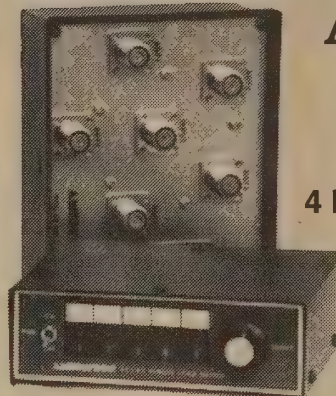
- Antennas Up to 15 sq. ft.
- Electric Locking Steel Wedge
- Dual 98 Ball Bearing Race
- Illuminated Directional Indicator
- Low Voltage Control
- Zener Regulated Meter Circuit
- Machined Steel Ring Drive Gear
- Maximum Mast Size 2 1/16"



T2X

- Antennas Up to 20 sq. ft.
- Electric Locking Steel Wedge
- 138 Ball Bearings
- Illuminated Directional Indicator
- Low Voltage Control
- Zener Regulated Meter Circuit
- Machined Steel Ring Drive Gear
- Maximum Mast Size 2 1/16"

AMERITRON REMOTE COAX SWITCHES



RCS-4 4 POSITION HF SWITCH

Similar to RCS-8V.
HF only
Handles 2500 watts PEP
Requires No Control Cable.

RCS-8V COAX SWITCH DC to UHF • 5 KW

Replace 5 coax feedlines with one with this Ameritron Coax switch. Weatherproof box mounts outdoors on your tower or mast. attractive control unit sits on your operating desk. Low SWR to 450 MHz. Low loss. Rated at 5 KW to 30 MHz, 1 KW at 15- MHz. Requires 5 wire control cable.

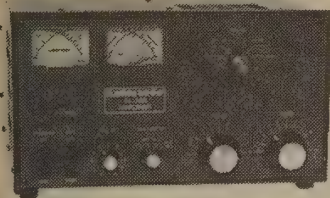
MFJ Low Pass Filter



MFJ-704

If your harmonics are causing TVI problems, an MFJ-704 could keep your neighbors happy while you have fun hamming. The MFJ-704 Super Lowpass Filter simply plugs between your rig and antenna. It suppresses TVI, RFI, telephone and other interference by reducing unwanted harmonics going to your antenna. Handles full legal power from 1.8-30 MHz. Attenuates above 40 MHz. 3 x 3 x 9 inches.

AL-80B kilowatt output desktop linear can double your average SSB power output with high-level RF processing. It also runs cooler because its Eimac 3-500Z tube completely turns off between words.

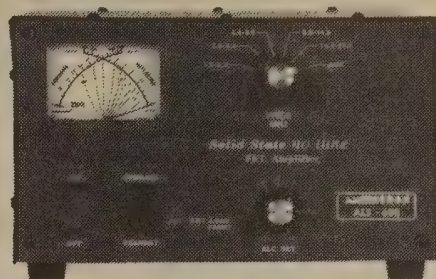


Ameritron AL-80B
1000 watts SSB • 850 watts CW
Heavy duty power supply
160 thru 15 meters
8.5"H x 14" x 15.25"W

Ameritron no tune Solid State FET Amplifier

No tuning, no fuss, no worries -- just turn on and operate. Incredibly low price includes AC power supply, 600 watts output, continuous 1.5-22 MHz coverage, instant bandswitching, no warm up, no tubes to baby, fully SWR protected, extremely quiet, very compact.

**Ameritron
ALS-600**
Includes ALS-600PS
Heavy Duty Power Supply



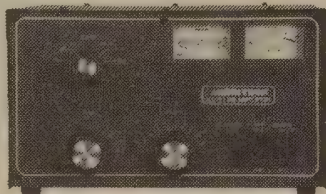
6" x 9.5" x 12"

Ameritron

A tough low cost linear with REAL transmitting tubes!

Ameritron AL-811 • AL-811H

Ameritron's AL-811 linear amplifier gives you plenty of power to bust thru QRM. You get a quiet desk top linear that's so compact it'll slide right into your operating position.



You get three tough vertically mounted 811A transmitting tubes, extra heavy duty power supply, all HF band coverage, pressurized ventilation, tuned input, dual illuminated meters, adjustable ALC and much more.

AL-811 3 tubes 600 watt out
AL-811H 4 tubes 800 watt out

Ameritron Mobile no tune Solid State FET Amplifier



Ameritron ALS-500M

Ideal mobile amplifier. Uses 13.8 VDC mobile electrical system, very compact 3.5 x 9 x 15 inches, extremely quiet, 500 watts output, continuous 1.5-22 MHz coverage, instant bandswitching, no tuning, no warm up, SWR protected.

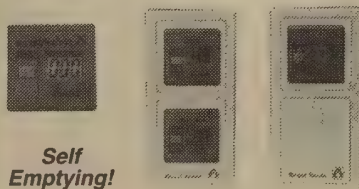
*For the unusual gift . . .
Great for birthdays, Christmas, etc.*

RainWise Rain Gauge

Remote Reading Rain Gauge! • 1/100" Read Out



New! Wireless Model



Self
Emptying!

*Accumulation Counter
Available on Some Models!*

- Large 8" collector area
- Indicator Stays Inside to Keep You Dry
- 30 Feet Wire Included
- Meets NWS Specifications
- Counters Have 1 Year Warranty
- Empties Automatically
- Battery Included on Some Models
- Digital Read-out
- Lifetime Gauge Warranty
- Self Emptying

Model	MSRP	Sale
Rainew 100 30' Wire Included With Accumulation Counter	69.95 119.95	64.95 109.95
Rainew Wireless -Up to 100' With Accumulation Counter	99.95 149.95	94.95 139.95

POWER POCKET

- 12V/2.0 Amp Hour
- Maintenance Free
- Rechargeable
- Belt Loop On Soft Bag
- Shoulder Strap
- Light-weight

Dependable power has never been easier or more convenient. Simply plug your radio in the POWER POCKET's cigar lighter plug and you have hours of extended talk time.



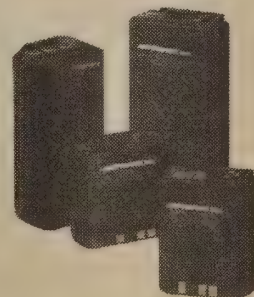
- Wall Charger Included • Charges in 6-8 hours
- 3.5" x 1" x 6.5" • 30 ozs.

See Power Pocket In Price List!

Battery Power Packs for Your Handheld

**MAHA • Peripherex
W & W Associates**

*We offer a
wide variety
of
after-market batteries
for your needs!*

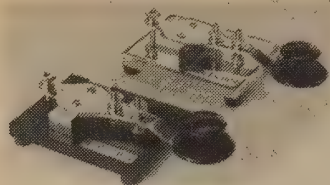


Call Now For Monthly Specials!

BENCHER

We Make CW Fun Again!

*We didn't invent CW,
we perfected it!*



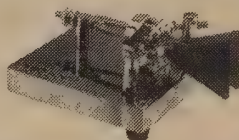
RJ-1 Hand Key

- Individual locking adjustments for arm height, tension and contact spring
- Non-skid Feet
- Oil impregnated pivot bearings
- Solid steel base comes in black or chrome finish



BY-1 Black BY-2 Chrome

- Stainless Steel Adjustable Spring for Different Fists
- Non-skid Feet
- Unmatched Responsiveness
- Nylon & Stainless Self Adjusting Needle Bearings



ST-1 Single Lever



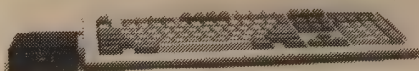
AMECO K-4 Telegraph Key

High quality key with a polished brass base and 1/8" silver contacts. The contact spacing and tension are easily adjusted. Smooth keying is assured by adjustable ball bearings.



MFJ-564

MFJ Deluxe Iambic Paddles features a full range of adjustments in tension and contact spacing, self-adjusting nylon and steel needle bearings, contact points that almost never need cleaning, precision machined frame and non-skid feet on heavy chrome base.



MFJ-451

MFJ Dedicated CW Keyboard

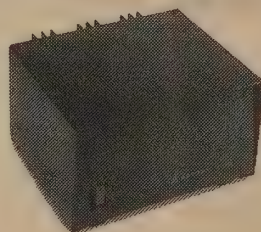
The MFJ-451 includes IBM-AT compatible keyboard, a 200 character type-ahead buffer and two 100 character nonvolatile message memories. You can key nearly any modern solid state transmitter and can vary speed from 5 to 100 wpm.

Use 12 VDC or 110 VAC with MFJ-1312B

ASTRON Power Supplies

ICS-Intermittent Communication Service
50% Duty Cycle - 5 min. on • 5 min. off

13.8 Volts DC
Crowbar Over Voltage Protection



RS-A SERIES	Continuous Duty Amps	ICS* Amps	Size (In) H x W x D	Wt. (lbs.)
RS-7A	5	7	3 3/4 x 6 1/2 x 9	9
RS-12A	9	12	4 1/2 x 8 x 9	13
RS-20A	16	20	5 x 9 x 10 1/2	18
RS-35A	25	35	5 x 11 x 11	27

RS-M SERIES WITH DUAL METERS

RS-20M	16	20	5 x 9 x 10 1/2	18
RS-35M	25	35	5 x 11 x 11	27
RS-50M	37	50	6 x 13-3/4 x 11	46

VS-M SERIES WITH DUAL METERS

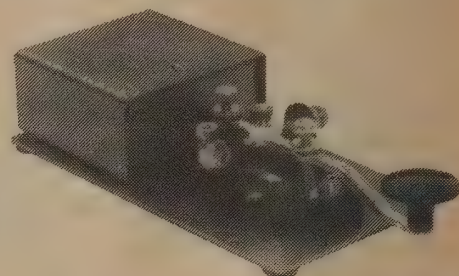
VS-35M	25@ 13.8 15@ 10VDC	35	5 x 11 x 11	29
--------	--------------------	----	-------------	----

NYE VIKING



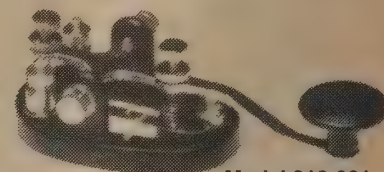
MASTER KEY 330-001

The perfect straight key. Complete with cord and plug-ready to use! Isolated contact assembly separates keying circuits from hardware. Includes gold-plated silver contacts, adjustable key arm, Navy knob and heavy die-cast base.



CODE PRACTICE SET 404-002

Perfect for beginner! Uses NYE Viking Standard Key (Model No. 310-001), oscillator and amplifier, built-in 2" speaker-all mounted on a base with non-skid feet. Gives chirp free keying. Key is ideal for re-use with any transmitter.



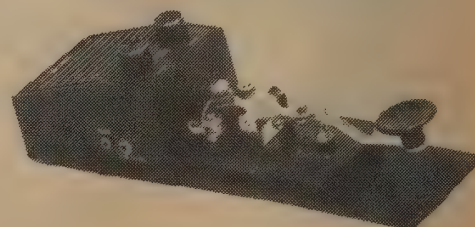
Model 310-001

Transmitting Keys & Accessories

- 310-001** Black Oval Base w/Nickel Plated Hdwe
- 315-001** Brass Plated Oval Key-Painted Steel Base
- 320-001** Blk Rectangular Base-Nickel Plated Hdwe
- 322-001** As above except brass hardware
- 300-002** Hvy Steel Base w/Non-Skid feet

MFJ-557

Code Practice Oscillator



Morse Straight Key On Heavy Steel Base
Volume And Tone Control • Adjustable Contacts
Earphone And External Speaker Jack
Requires 9V Battery Or MFJ-1305 Adaptor

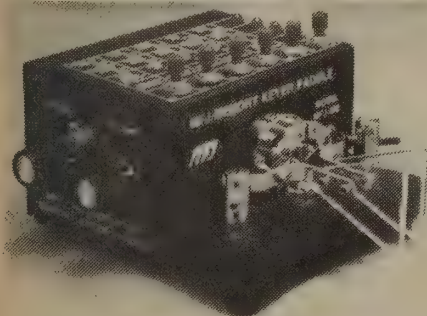
MFJ Keyers, Memory Keyers and Code Tutor



MFJ 422B

MFJ, Bencher and Curtis team up to bring you America's most popular keyer in a compact package for smooth easy CW. It gives you the proven Curtis 8044 ABM IC, is adjustable in weight and tone and has front panel volume and speed controls (8-50 WPM) and dot-dash memories.

Includes Bencher BY-1 (Black)
4 1/8"W X 2 5/8"H X 5 1/2"D



Menu Driven Memory Keyer Bencher Paddle Combo

MFJ-490

The best of all CW worlds -- nearly all the features of the MFJ-492 Menu-Driven Memory Keyer in a compact configuration that fits right on the Bencher iambic paddle!

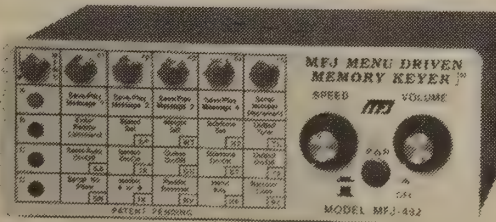
You get message memories, Morse trainer, sidetone, automatic serial numbering -- plus more. Uses 9 volt battery, 12 VDC or 110 VAC with MFJ-1312B AC adapter. 5 x 3 x 5 1/2 in

MFJ Menu Driven Memory Keyer MFJ-492

MFJ's new Menu Driven Memory Keyer lets you immediately enjoy your MFJ-492 without reading an instruction manual -- there's no keypad, no complex sequences, nothing to remember.

You simply select a menu by pressing a button. An LED lights to show you which menu is active. You select a feature by pressing a feature button. It's as easy as using a computer touch screen! Each menu is clearly printed on the front panel -- there's no confusion.

- Save and play messages
- Set speed, weight, sidetone
- Enter iambic, semi-auto, handkey message queue command modes
- Powerful Morse Code Trainer
- Instant- replay a random session
- Store custom code practice sessions in memory



- Message Repeat
- Message Call
- Message Edit
- Built-in sidetone, speaker
- Tune feature
- Contest serial numbering
- Uses 9V battery (not included)
- 12 VDC or 110 VAC w/MFJ-1312B
- Compact 6 1/2 x 2 1/2 x 6 3/4 in.

MFJ Personal Morse Code Tutor MFJ-411

Learn Morse code anywhere with personal pocket size Morse Code Tutor

Learn Morse code anywhere with this pocket size MJF Personal Morse Code Tutor.

When you have a spare moment, no matter where you are, you can enjoy a code practice session ... at home, going to work, in a hotel, on vacation, on a plane, car, train, bus or just waiting.

Beginner's Course Mode This pocket size tutor takes you from zero code speed with a beginner's course to Extra Class with customized code practice.

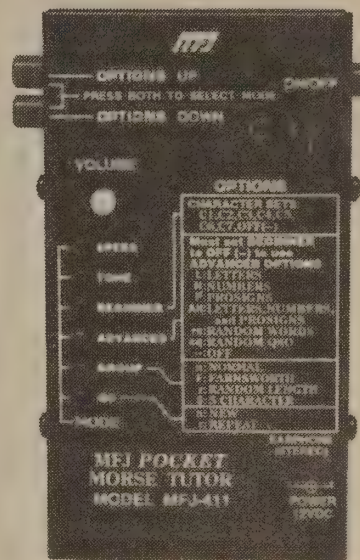
A Random QSO Mode lets you practice copying plain English QSOs to get you ready for your FCC code exam.

Customized Practice You can customized a practice session by selecting letters, numbers, 5 character groups or random 1 to 8 character groups. You can vary speed from 5 to 50 words per minute.

Realistic Plain English QSOs You can practice copying realistic on-the-air style plain English QSOs.

Word Recognition Mode It give you hundreds of commonly used words in amateur radio for you to practice recognizing entire words instead of individual letters.

- Easy-to-Use Menu
- Pocket Size
3 x 1 1/8 x 5 1/2 in.
- Uses a 9V Battery (Not Included)
Or MFJ-1312B AC Adapter



MFJ 401B

Proven Curtis 8044ABM IC Keyer Chip
Send iambic, automatic, semi-automatic or manual with your squeeze or straight key
Dot-Dash Memories • Volume Control
Self Completing dots and dashes
Speed Control 8- 50 WPM
Requires 9V Batt or MFJ-1305
4" x 2" x 3.5"

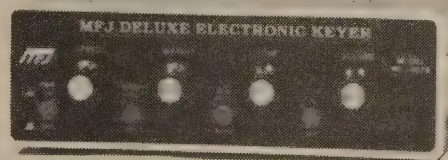
See Price List For More
MFJ Electronic Keyers



MFJ 407B

All the features of 401B
Plus

Front panel controls include linear speed, weight, tone and volume controls.
7" x 2" x 6"



MFJ Super Menu Driven Memory Keyer

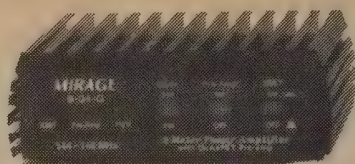
MFJ-493

You get all the features of the MFJ-492 plus all of these ...

- 32,000 characters of memory
- Plug a standard PC 101 Keyboard
- Built-in serial port
- Use your computer to compose, build and store a complete library of often used messages
- FCC Exam Simulator
- MFJ's QSO Simulator
- Word Recognition Mode to practice recognizing entire words
- Compact 7 1/2 x 2 1/2 x 6 3/4 in.
- Uses 12 VDC or 110 VAC with MFJ-1312B

Mirage . . . 35 Watts for handhelds!

B-34-G



**MIRAGE
RUGGED!**

For an incredibly low price, you can boost your 2 Meter handheld to 35 watts -- the power of an expensive mobile!

Your handheld becomes a powerful mobile or base when you need it -- for a lot less money.

Talk further . . . reach distant repeaters . . . log onto faraway packet bulletin boards.

This amplifier operates all modes: FM, SSB and CW.

A built-in low noise GaAsFET receive preamp gives you 18 dB gain -- lets you dig out weak signals

B-34

35 Watts - FM Only

35 watts out for 2 watts in. Similar to B-34-G but FM only, less preamp. Measures 3 1/8x1 3/4x4 1/4 inches

Mirage Dual Band 144/440 MHz Amp

BD-35



Add this Mirage dual band amp and boost your handheld to a powerful mobile or base -- 45 watts on 2 Meters or 35 watts on 440 MHz!

- 45 Watts on 2 Meters/35 W on 440 MHz
- Automatic Band Selection
- Single Connector for dual band radios and antennas
- Full Duplex Operation
- Reverse polarity protection
- One year Mirage Warranty
- Works with all FM handhelds up to 7W
- Includes mobile bracket
- 5 x 1 13/4 x 5 inches

Mirage Rugged!

The B-5016-G . . . 160 Watts on 2 Meters!

B-5016-G

MIRAGE's most popular amplifier gives you 160 watts of brute power for 50 watts input!

The B-5016-G is ideal for your 20 to 60 watt 2 Meter mobile or base station. 25 watts in-135 watts out . . 50 watts in -160 watts out!

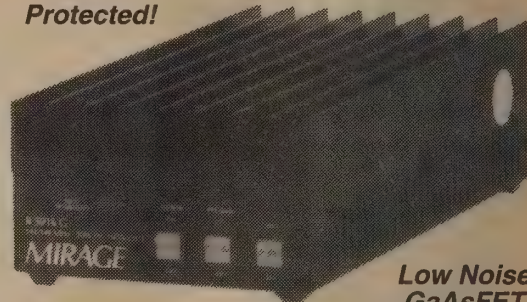
You will talk further, longer and clearer on all modes -- FM, SSB, or CW -- and hear weak signals better than you've ever heard before!

Low noise GaAsFET preamp gives you excellent 0.6 dB noise figure for pulling out weak signals. Select 20 dB or 15 dB gain to minimize receiver overload and intermod.

The B-5016-G prevents damage from high SWR by bypassing the power amplifier. LED warns you.

12 x 3 x 5 1/2 inches

**SWR
Protected!**

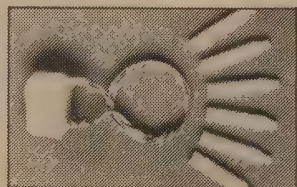
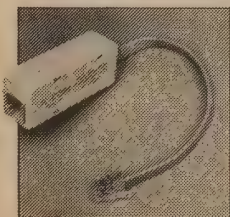


**Low Noise
GaAsFET
Rx Preamp**

Stop Telephone RFI Forever

With K-COM

Telephone Interference Filters



Model RF-1 Single Line. Modular filter for single line equipment.

Model RF-2 Hard Wired Filter. Installs in phone jacks, behind wall mounted telephones and throughout system wiring. Single line design. Also highly effective in blocking RF interference to security systems, intercoms and data lines.

RF-1	3.0-30 MHz	50dB	RJ-11
RF-2	3.0-30MHz	50dB	Crimp

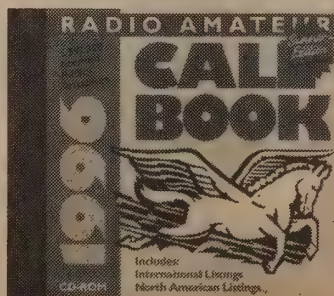


See QRZ! in price list!

QRZ! Ham Radio CALLSIGN DATABASE

Nearly 1 million callsigns!

- 976,200+ Callsigns
- Over 3000 PC Amateur Radio Programs
- ARRL information files and bulletins
- Radio and scanner MODS
- Online FCC exam training software
- Computer radio control programs
- Contest logging software
- And much more!!



See Radio Amateur Callbook in price list!

RADIO AMATEUR CALLBOOK

Includes:

International Listings
North American Listings

1,391,390 licensed Radio Amateurs

Data display by callsign, last name, street, city, state, zip, license class, issue and expiration dates, etc.

Prints labels from both Windows and DOS platforms.

Listings of clubs and QSL Managers

And more . . .

The 1996 ARRL Handbook 73rd Edition #1735

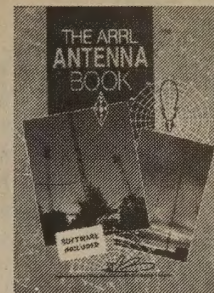
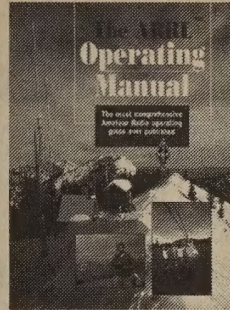
An indispensable reference for hams and engineers alike, The ARRL Handbook, with its 1184 pages and 2100 charts and illustrations, is an exceptional value. #1735 \$38

The ARRL Operating Manual has been updated to include the latest information about every aspect of our dynamic hobby. How to operate on a repeater or Packet Cluster. How to snare a contact through a DX pileup. What satellites are available and how to use them. Includes an ARRL DXCC Countries List, beam-heading information, a series of maps, US counties, sunrise/sunset table, and much, much more. #4939 \$22

The 1996-1997 ARRL Repeater Directory includes more than 19,000 listings for voice and digital repeaters and propagation beacons located in North, Central and South America. This edition also lists more than 500 beacons from 14 MHz to 24 GHz. You'll also find band plans, a CTCSS tone chart and more. #5609 \$8



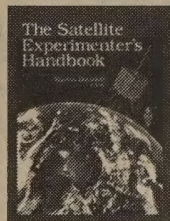
ARRL Publications



The ARRL Antenna Book is the definitive source for information on state-of-the-art antenna and transmission line theory and construction. The 17th edition presents the best and most highly regarded information on antenna fundamentals, propagation, transmission lines, Yagis and quads, as well as all popular wire antenna designs. Included with this edition is a diskette with software. #4734 \$30

The ARRL Antenna Compendium Series Each one is packed with previously unpublished articles on all the popular types of HF/VHF/UHF antennas. Volume 1 contains articles on multiband portable, quads, loops and baluns. Volume 2 features several verticals, an attic tri-bander, antenna modeling and propagation. Volume 3 has forty articles including 12 meter quad, a discone and many others. All three volumes are a feast for the antenna enthusiast.

Antenna Compendium, Volume 1	#0194	\$10
Antenna Compendium, Volume 2	#2545	\$14
Antenna Compendium, Volume 3	#4017	\$14
Antenna Compendium, Volume 4	#4912	\$20

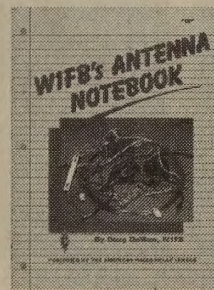
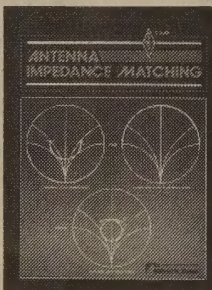
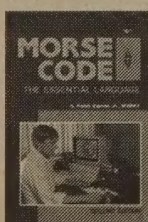


Weather Satellite Handbook by Dr. Ralph Taggart, WD8DQT, is for ANYONE with an interest in electronics, meteorology, earth science, image communications or computer science. Packed with projects, the 5th edition allows you to get in on the fun of monitoring a variety of weather satellites. #4483 \$20

The ARRL UHF/Microwave Experimenter's Manual is written for the growing number of radio amateurs who are discovering that there is life on our frequencies above 420 MHz. Technicians and engineers will find this book particularly useful as the basis for understanding microwave technology. You'll find information on design and fabrication techniques, propagation, antenna and feed lines, transmission media and much more. #3126 \$20

Satellite Experimenter's Handbook has the information you need to communicate through or receive signals from a growing "fleet" of orbiting satellites. Whether your interest is in Amateur Radio, weather, TV-broadcast or other spacecraft, you'll find an immense store of valuable data. Everything from satellite design to ground station equipment and antennas. Written by Martin Davidoff, K2UBC. #3185 \$20

ARRL Satellite Anthology is a must for everyone interested in amateur satellites. A compilation of QST articles, it will show you how easy it is to track, decode telemetry from and communicate through such amateur satellites as AMSAT-OSCARs 10 and 13, the Russian RS series and the new Microsats. 4th edition. #5595 \$12

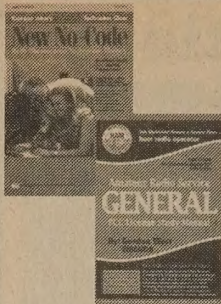


Practical Wire Antennas, by John Heys, G3BDQ, is an RSGB book that delves into the practical aspects of HF wire antennas: how the various types work, and how to buy or build one that's right for you. Marconis, Windons, loops, dipoles and even underground antennas. #R878 \$14

Antennas and Techniques for Low Band DXing is an in-depth treatment of the antennas and operating strategies you'll need to span the continents on 40, 80 and 160 meters. #4661 \$20

Practical Packet Radio	#5307	16.00
Your Packet Companion	#3959	10.00
Your Ham Companion-Ant Basics	#5110	10.00
Your VHF Companion	#3878	8.00
Your Mobile Companion	#5129	12.00
QRP Power	#5617	12.00
Vertical Antenna Classics	#5218	12.00
Beyond Line of Sight	#4025	12.00
Intro to Radio Frequency Design	#4920	30.00
RFI: How to Find and Fix It	#3754	18.00
Ham Radio Made Easy	#5374	16.00
UHF/Microwave Projects Manual	#4491	20.00
Understanding Basic Electronics	#3983	20.00

W5YI has the right book for you!
Novice, Tech+, General, Advanced, Extra
 Everything You need to Upgrade - the Quick and Easy Way!



- Fully Illustrated Text
- Handy Formulas for Each Class
- Frequency Chart Showing Privileges
- FCC Form 610 Application
- Enjoy Increased Frequency Privileges
- Contains All Test Questions

- Explanations of Correct Multiple Choice Answers
- List of Examiners - VECs
- FCC License Preparation
- Study Hints and Instructions
- Includes Charts and Diagrams



No-Code Ham Radio Software Package

Everything you need to know to pass the examination for the Codeless Technician. Learn to be a ham operator right at your PC! Complete with 232 page manual and FCC Part 97 Rule Book.



Ham Operator Software with Code Practice

Covers Novice through Amateur Extra Class. Study at your PC for all FCC license tests. Teaches the Morse code and builds speed past 20 wpm. Complete with current FCC Part 97 Amateur Radio Rule Book.



General Upgrade Software Package

Upgrade to the General Class and work HF! Software teaches Morse Code and builds speed to 13 wpm and beyond. Print out sample written tests. 112 page manual and FCC Part 97 Rule Book.



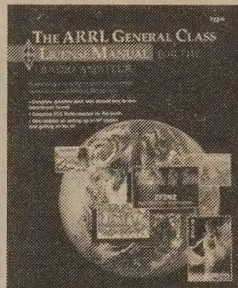
Computer Aided Instruction Extra Upgrade Software Package

Advanced Upgrade Software Package

Includes instruction manual, FCC Rule Book and Morse Academy for Morse Code practice!



See price list for complete listing of ARRL Publications!



ARRL LICENSE MANUALS
Now You're Talking

All You Need To Get Your First Ham Radio License

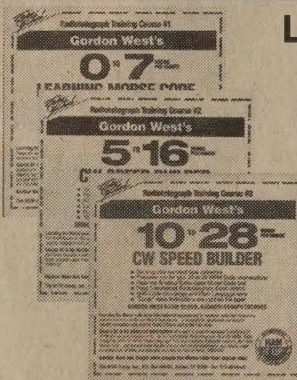
This book covers everything you need to know to earn your first Amateur Radio license. More than a study guide, it will help you select equipment for your ham radio station and even explain how to set it up! Whether you're interested in the codeless Technician license or the traditional Novice ticket, with **Now You're Talking!**, it's easier than ever to become a ham radio operator! #4173

Upgrade Your License The Easy Way!

The ARRL License Manual Series represents the best study material for the General, Advanced and Extra Class Amateur Radio exams. The appropriate examination question pool, complete with an answer key, is included for easy reference. The answer key contains page references so you can locate appropriate text explanations as you review the questions before your exam.

ARRL License Manual Series

Now You're Talking (Thru June 30, 1997)	#4173
General Class (Thru June 30, 1998)	#4688
Advanced Class (Thru June 30, 1999)	#4947
Extra Class (Thru June 30, 2000)	#5390
FCC Rule Book	45102



LEARNING MORSE CODE

GORDON WEST RADIO SCHOOL
RADIOTELEGRAPH COURSES

- Six long play narrated tape cassettes
- Prepares you for your Morse Code test
- Farnsworth character spacing
- Learning the right way makes passing the exam easy.
- Voice instructions are right on the tape



Morse Code Cassette Tapes
 From W5YI Group

GWNT Novice Code Teacher
 Teaches Morse Code and increases speed to 5 words-per-minute.

GWGT General Class Code
 Increases speed from 5 to 14 wpm. Complete with sample telegraphy tests.

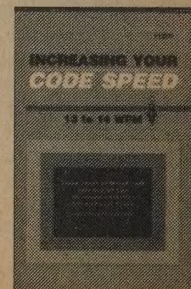
GWET Extra Class Code
 Increases speed from 12 to 24 wpm. Complete with sample telegraphy tests.

ARRL Code Practice Cassettes

Each set of two C-90 tapes provides three hours of practice.

Your Introduction	
To Morse Code 0-5 WPM	#3487
Set 1: 5 to 10 WPM	#2227
Set 2: 10 to 15 WPM	#2235
Set 3: 15 to 22 WPM	#2243
Set 4: 13 to 14 WPM	#2251

GGTE Morse Tutor - 3.5" Disk



Premier Communications-ADI on Target for You

Coming Soon!
NEW
Dual Band HT
AT 600

Mobiles

AR-446 :

- UHF Mobile Radio
- 5/10/35w
- Encode/Decode
- 40 Memories + Call Channel
- Scans, pages, decodes & displays received DTMF signals
- Modifiable for MARS, CAP
- Display operating freq. or channel number



AR-446

AR-146 :

- 144-148 MHz
- RX 138-174 MHz
- Power: VHF: 50/10/5w
- Frequency Lock
- Auto Power Off
- Dual Tone Squelch System Paging
- 16 Digit DTMF Decode and Display
- CTCSS Encode/ Decode (included)
- Multi Function DTMF Microphone
- Selectable Frequency Steps
- Carrier or Timer Scan Stop
- Memory/Band Scan
- 40 Memory Channels
- 4 Step Display Dimmer
- Mars/Cap Capable
- Time Out Timer
- Dual Frequency Watch

AR-146

Speaker/Mics

Fits Yaesu, Icom, Alinco, Kenwood, ADI, Standard & Motorola

SPM-100/101
SPM-200/201
SPM-300/301
SPM-400/401
SPM-500/501



SPM-100



SP 400/401

Mobile Antennas

Features

- 1:1 SWR at 146.50 MHz
- Exclusive New Connection System
- Mating Mounts available
- Handles Up to 100 Watts
- Sturdy, Efficient Design
- Higher gain design
- Fold-Over Mast
- Two Hot Models

PNC-2

PNC-4

HT Antennas

- RD-76 : Dual Band 15" HT Antenna
• 2.15 dbi/3db, also for scanning
- RD-8 : Dual Band 6" HT Antenna
• 900 MHz, also for scanning

- RD-98 : Dual Band 17" HT Antenna

- AL-800 : Dual Band Telescoping Antenna
• 2 in 1, 144/445 3.2/5.6 db

AT-401

- AT-201/2M : 130-179 MHz
AT-401/70cm : 430-450 MHz
- Extended Receive Coverage
 - 40 Memories
 - Stores Any TX Offset and CTCSS Tone in any Memory
 - Automatic Repeater Offset
 - Full Range Scanning or 1 MHz Range Scanning
 - Memory Group Scanning

AT-201



Base Antennas

- A-1000 3 Sec. 17.5' 8.5/11.8dB
- A-300 2 Sec. 11' 6.5/9db
- A-200 1 Sec. 5.9' 4.5/7.2 db

- Fiberglass Radome
- High Wind Rating
- No Tuning Required
- 100% Weather Proof
- Maximum Gain
- Full One Year Warranty

"The Power Station"

SB-752



- Charge while driving car
- 3, 6, 9 & 12V Selectable
- 8"H x 4.5"D x 7.5"W @ 8#
- Voltmeter

C156A

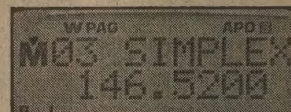
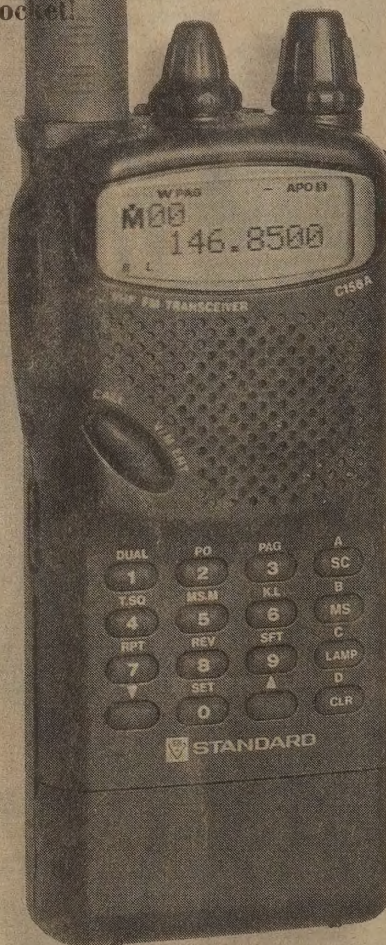
STANDARD'S QUALITY! STANDARD'S FEATURES! EVERYBODY'S PRICE!

Standard's new C156A is indeed a hand-held that everyone can afford, yet it boasts all the user-friendly features that Standard users have come to expect. Take a look at the bright, clear Dot-Matrix display, with alpha-numeric ID as well as frequency, then look at these other features: • 100 Memory Channels plus CALL and VFO • CTCSS - 39 tones built-in • Battery Save 1, 2, 3, 4 or 5 Sec • Auto-Power-Off 30, 60, 90 or 120 min • Dual Watch mode • Scan - 1 MHz, All, Program, Memory, Block memory, Memory Scan Memory and CTCSS (with optional CTN115) and much, much more! Comes with "AA" penlight cell pack, so you need never run out of battery. All this in a Standard - for under \$200! See your Standard dealer today and you'll go home with a C156A in your pocket!

SPECIFICATIONS

- Frequency Coverage
VHF RX 135.000-174.000 MHz
TX 144.000-147.995 MHz*
- Frequency steps, 5, 10, 12.5, 15, 20, 25, 30 and 50 kHz
- Scan: Pause, Busy or Hold
- Store: Alpha-Numeric Titles, Repeater, Offset frequency,
- Paging, Code Squelch, Tone Encode; Tone Decode with optional CTN115
- Auto repeater offset
- Built-in 1750 Tone Burst
- PTT lock
- Keyboard lock
- Auto Squelch 8 settings
- TX Time-Out Timer
- Paging/Code Squelch
- Wake-up receive mode
- 9 DTMF memories
- 3 power levels: H, M, L
- Back-lighted display
- DTMF Paging and Coded Squelch
- Direct Frequency Input with Keypad
- Unsurpassed Intermod Rejection
- Size approx: 2.28" W, 4.92" H, 1.02" D;
Weight approx: 10.6 oz
- C156A supplied with CBT156 dry battery case for 4 "AA" batteries. (batteries not included)

*CAP/Mars Transmit with appropriate Permit



OPTIONAL ACCESSORIES

- CAW151B Power Cable for Base Station
- CAW152B Mobile Cord with Noise Filter
- CHP111 Head Set with PTT
- CHP150 Head Set with VOX
- CLC155 Soft Case (CNB155/156)
- CLC156 Soft Case (CBT156)
- CLC157 Soft Case CNB157/CBT158
- CMB112 Mobile Bracket
- CMB600 Helmet Clip for CHP150
- CMC150 Mobile Charger (CNB155/156/158)
- CMP111 Speaker Microphone
- CMP113 Tie-pin Speaker Microphone
- CMP115 Small Speaker Microphone
- CNB155 4.8V 600 mAh Small Battery (1.8 Watt Output)
- CNB156 6.0V 600 mAh Standard Battery (2.8 Watt Output)
- CNB157 9.6V 600 mAh High Power Battery (5 Watt Output)
- CNB158 6.0V 1200 mAh Long-life Battery (2.8 Watt Output)
- CSA181AB Desk Top Charger
- CTN115 CTCSS Decode Module
- CWC156A Wall Charger (CNB155/156/158)
- CWC151A Wall Charger (CNB157)



For more information on this and other STANDARD products, please contact your nearest STANDARD dealer. Specifications, price and features are subject to change without obligation or notice. Standard Amateur Radio Products, Inc. P.O. Box 48480, Niles, Illinois 60714.
Tel (312) 763-0081
Fax (312) 763-3377



STANDARD'S
ON THE WEB!

[HTTP://WWW.STDRADIO.COM](http://www.stdradio.com)